

CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

OCTOBER 24 1959

V. Advertising is working for YOU!

on advertising is now backing up a powerful Press camthich is bound to bring new customers into your shop for Valderma Balm and Soap. Show Valderma in your window and on your counter and cash in on these profitable lines now.



VALDERMA

Antiseptic Balm and Soap



FIGARO GOES NATIONAL

for Christmas

PRESS SELLS FIGARO.. to 14 million readers—in fact, to just about everyone who reads a national newspaper! Forceful, attention-getting advertising in big spaces starts—mid-November, keeps—up—till Christmas!

T.V. SELLS FIGARO.... to 21 million viewers! At peak viewing times no less than *ninety* 30 sec. commercials tie in with the press to back you up with the most persuasive Dry Shaver campaign ever!

YOU'LL SELL FIGARO

... to every customer who wants an electric shaver with more features than any other to give the fastest, cleanest, smoothest shave of all! That's guaranteed Figaro! With a snap-up trimmer, two foils, two speeds, dual voltages, on off switch, self-sharpening shears, self-starting, self-lubricating motor and all accessories in a ruby presentation case with travel wrap inside! **Send your order today!**

FIGARO FAST ... CLOSE ... SMOOTH

FIGAR FIGAR FIGAR

FIGARO II 10 gns. FIGARO II £8.10. FIGARO III £7.2.6.

(All tax paid) Made in Britain



THE EYER READY CO IS 8 ; LTD. LONDON N7

Chronic Bronchitis



The country's greatest problem in respiratory disease

Over £60,000,000 a year in lost productivity and sickness benefit and

Nearly 27,000,000 working days lost through bronchitis each year among the insured

Mounting toll on doctors' time, and hospital beds

Serious increase in number of fatal cases

Calls for the dramatic action of





LEDERLE LABORATORIES

CYANAMID OF GREAT BRITAIN LTD. London W.C.2





ANY 3 MODELS

Illustrated London News, Scottish Field, Country Life.

The word THERMOS is a Registered Trade Mark

THERMOS LIMITED
SEYMOUR ROAD, LEYTON, LONDON, E, 10

pssr! Have you heard yet?

Ronson shavers are all-out to capture the Christmas gift market



15-week shaver campaign is mounting the big guns!

SOON—Peak-Time TV Hard-selling 45-second spots pressing home the advantages of Ronson shavers.

NOW—Big-Space Press Advertisements Selling the Ronson way of shaving.

SOON—Christmas Gift Campaign

On November 22 the *Ronson for Christmas* campaign will be breaking.

Up and up goes the advertising. Up and up goes the demand. Are you ready to meet it?

CHECK YOUR RONSON STOCKS TODAY

RONSON PRODUCTS LTD., LEATHERHEAD, SURREY. TELEPHONE: LEATHERHEAD 4444

GLUCOHEPTONIC ACID

SODIUM GLUCOHEPTONATE

* * *

Your enquiries invited

ORMEROD TAYLOR & SON LTD.
TODMORDEN

Lancs.

Now nights are turning cold

BIGGER DEMAND

Now's the time your sales go up. Customers who know how effectively Besorbon nips colds in the bud, now come back for more. Sales are maintained by personal recommendation between friends.

FREE DISPENSER

Stock Besorbon by the dozen and obtain the attractive counter unit free. By displaying Besorbon boldly now, you'll gain new customers—more profit.

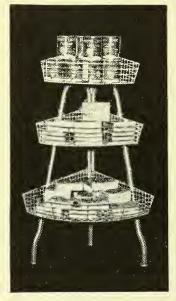
it's big selling for

BESORBON

MEDICINAL SNUFF

Kemsales Ltd. · Eastcheap · London, E.C.3

SOUL BOOSTER FOR SMALL GOODS



AW602

(Regd. design No. 887328)
1-round Basket Tray
Sales Stand with 3 shaped
tubular steel uprights,
stove enamelled silver,
welded together in centre
and fitted with inverted
hooks to carry 3 Wire
Trays, hot tinned finish.

Overall Sizes:—
3' 7" high x 1' 7" wide.
Trays 14" and 18" straight sides x 4" deep.

Price:
£6, 16, 0,
complete.
Delivered FREE in the
U.K.

Other models in stock, illustrated booklet sent Free on request.

SAGE E.CO.LTD.

HOLBORN HALL • GRAY'S INN RD • LONDON • W.C.I

Telephone: Holborn 7822

Top-Selling Rodenticides

RODINE

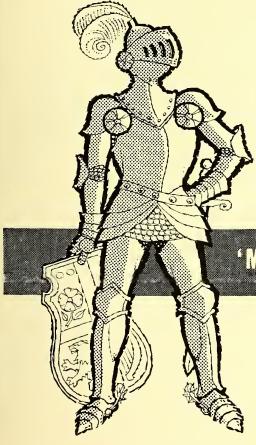
Rodine Phosphorus, Rodine Red Squill,
Rodine Warfarin (Ready-to-use or Concentrate),
and Special Rodine Mouse Warfarin.
THOMAS HARLEY LTD., RODINE WORKS, PERTH, SCOTLAND





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No chinks in the armour

When winter's efforts concentrate on attacking the stoutest constitutions, there are thousands who regard vitamin supplementation as vital protection. 'Multivite' and 'Radio-Malt' are trusty weapons.

RADIO-MA

Popular choice for vitamin supplementation. Vitamins A. B., C and D₂, in full potency in a palatable chocolate coating.

Bottles of: TRADE RETAIL 2/4 3/6 14/6 21/9 50 pellets ... 500 pellets

Bonus terms on application.

For radiant health. Delicious, toffee-flavoured, so popular with children.

TRADE RETAIL ... 2/5½ 3/6 ... 4/4 6/3 1-lb. jars ... 2-lb. jars ...

Special winter bonus terms for bulk orders.

THE BRITISH DRUG HOUSES LTD. LONDON N.1



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Organon: Laboratories, Ltd.

Vitaminised IRON and YEAST TABLETS

Wilson & Mansfield, Ltd.

Wyeth, John, & Brother, Ltd.

in 10 attractive 'own-name' packaging styles supported by modern counter display material

If you are not familiar with this line—
please write for terms and a free sample



ARTHUR H. COX & CO. LTD.

Manufacturing Chemists

for 120 years

BRIGHTON

ENGLAND



THE 'ALKATHENE' LABEL is a signpost to shopping success. That's what we're telling women all over Britain. Colour pages in women's magazines; 30 second T.V. commercials; a 2 minute colour film. They all say 'Look for the 'Alkathene' label'. And your customers will look for it when they come into your shop.

It will certainly pay you to sell goods made from 'Alkathene'. The label is a sign of good quality and reliability.

To meet the growing demand, make sure you have plenty of goods labelled 'Alkathene'. Display them well and cash in on this vigorous publicity drive.

FREE DISPLAY MATERIAL

to link your shop with 'Alkathene' national advertising, available on application through your usual trade channels or direct to Publicity Dept., Plastics Division, Imperial Chemical Industries Ltd., Welwyn Garden City, Herts. Shelf cards can be obtained from individual manufacturers.

Alkathene' is the registered trade mark for the polythene manufactured by I.C.I.



INTRODUCING-

BIOTTA JUICES

the newest non-alcoholic juices from fresh vegetables

CELERY · CARROT BEETROOT · TOMATO

each bottled separately, in Switzerland, by a new exclusive process of lacto-fermentation.

Outstanding Merits --

- No preservatives, no flash-pasteurization.
- Stability and purity never before achieved.
- Delightful tangy taste with all the natural flavour and substances unimpaired.
- Acclaimed by the medical and general Press. Invaluable in the treatment of a variety of ailments.
- Nutritionally superior, can safely be given to infants.

 Contents 25 ozs. approx.

RETAIL PRICE 12/9 per bottle. Attractive Trade Terms.

Agents and Distributors wanted

Sole Importers: TOM E. HOBSON LIMITED,

46 CROOKED BILLET, LONDON, S.W.19 Phone: WIMbledon 0407

RHEUMATIC RELIEF - -

A vast number of people suffer pains due to Rheumatism, Neuralgia, Chest Colds and so on. Most of them seek relief, and for this we offer a tried and trusted product—THERMOID CREAM. This contains Wintergreen, Menthol and Capsicum in a NON-GREASY base. The properties of these are well known to be WARMING, PENETRATING and PAIN RELIEVING—just what the sufferer seeks. Display THERMOID regularly; it will sell and bring repeat business.

Bonus and display material available.



A PRODUCT OF Cixson, Gerrarde Co. Ltd. OLDBURY, BIRMINGHAM

For the first time in Gt. Britain: 66 PENNAC ** LOW SODIUM MILK Manufactured in Switzerland

- "PENNAC" is a low-sodium Milk, in powder form, for salt-free diets.
- Reconstituted in the normal way, "PENNAC" contains only 36 mg. of NaCl (14 mg. of sodium) per 100 cc., i.e. five times less than ordinary milk.
- "PENNAC" is available in two forms: full-cream and skimmed.
- Indicated in all salt-free diets, for children and adults.

Indications

FULL-CREAM "PENNAC" used in hypertension, cardiac and renal diseases, and for the prevention of gestational disorders.

SKIMMED "PENNAC" used in obesity and pregnancy.

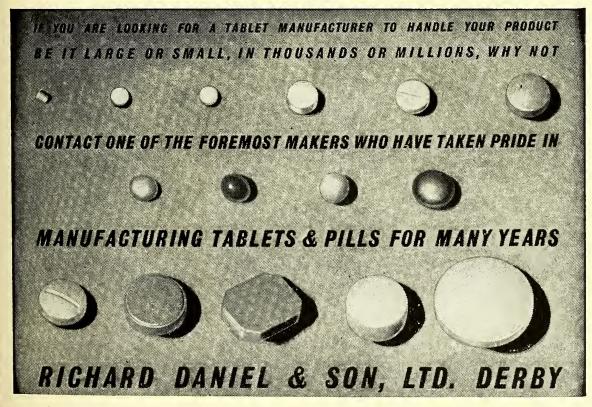
LITERATURE FREE ON REQUEST

Packing: Tins of 180g. net, hermetically sealed under vacuum.

Agents and Distributors wanted everywhere

Sole importers: TOM E. HOBSON LIMITED

46 CROOKED BILLET, LONDON, S.W.19 Phone: WIMbledon 0402



Write us at Mansfield Road or ring Derby 40671 (Ten lines)

Raise your average sale

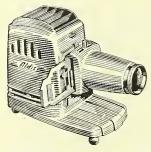
There's plenty of money about this year-it will be well worth the extra effort involved for you to stock and sell good photographic equipment, and so raise your average sale.

NEBRO products are well-known and well-advertised: the name is a guarantee of satisfaction for your customer and a safeguard for yourself. The ever-increasing interest in photography is making good equipment easier to sell at any season of the year, and particularly so at Christmas.

Stock the best equipment at the right price—NEBRO.



ALDISLITE projects a 5 ft. picture in an ordinary room, has 100w. illumination, and automatic slide ejection. £9.18.6



ALDISETTE 2 is a convectioncooled 150w. projector with 8.5 cm. f/2.5 Anastigmat lens, giving a 5 ft. picture at 12 ft. or a much bigger picture in a larger room, with 2"x 2" slide carrier.

150w. lamp £1.1.9.

ALDIS 500 has blower cooling and 500w. illumination. Complete with 8.5 cm. f/2.5 Anastigmat lens and 2"x 2" slide carrier.

Also available with 10 cm. f/2.8 lens. £22.19.6 500w. lamp £2.6.0.

ALDIS 5-STAR 1000 is designed to take 1000, 750, 300 or 250w. lamp. Powerful blower-cooling, 10 cm. f/2.8 Anastigmat lens and 2"x 2" slide carrier. £29.18.6

Also available with 15 cm. lens. £34.2.6

1000w, lamp £3.2.0.



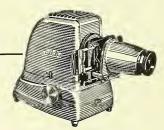
ALDISETTE 3 is a blower-cooled projector with 300w. illumination, 8.5 cm. f/2.5 Anastigmat lens, on/off switch and 2"x 2" slide carrier.

300w. lamp £1.13.0.

£19.19.0

SUPER ALDISETTE gives even bigger and brighter pictures. Takes 500w. miniature lamp specially developed for this model, has suction cooling, 8.5 cm. f/2.5 Anastigmat lens, and $2'' \times 2''$ slide carrier. £25.17.6

500w. lamp £2.2.0.



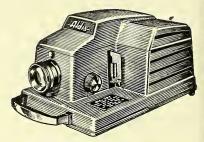
ALDIS 300 is a convection-cooled 300w. projector with 8.5 cm. f/2.5 Anastigmat lens (giving a 5 ft. picture at 12 feet) and 2"x 2" slide carrier.

£16.16.0

Also available with 10 cm. f/2.8 lens.

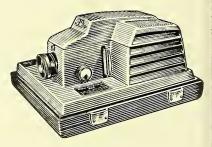
300w. lamp £1.14.3.

£18.15.6



ALDIS 303 has 300w. illumination, suction cooling, Aldaspheric optical system with 8.5 cm. f/2.5 Anastigmat lens and 2"x 2" slide carrier. Complete with protective cover.

300w. lamp £1.13.0.



ALDIS AUTOMATIC has 500w. illumination, remote controls for focusing and slide changing, suction cooling, special Aldaspheric optical system. Complete with Airequipt magazine, carrying case and standard slide carrier. £37.17.6

500w. lamp £2.15.0.



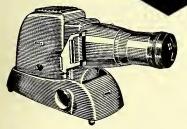
ALDIS AUTOMATIC DE LUXE has all the above features, plus a builtin interval timer which enables the projector to work itself. Complete with carrying case, Airequipt magazine, standard slide carrier and 500w. lamp.

£52.10.0

PLACE YOUR

ORDERS NOW!

cell NEBRO photo goods



ALDIS SUPER SIX 300 projects both $2\frac{1}{4}$ "x $2\frac{1}{4}$ " and 35 mm. transparencies. Maximum screen brilliance even in a normally-lighted room. With 6" f/2.8 Anastigmat lens and $2\frac{3}{4}$ "x $2\frac{3}{4}$ " slide carrier.

300w. lamp £1.14.3. 2"x 2" slide carrier £1.17.0.

ALDIS SUPER SIX 1000

Designed for large halls and lecture rooms, has built-in blower unit and gives 1000w. illumination. With 6" f/2.8 Anastigmat lens and $2\frac{2}{4}$ " $\times 2\frac{3}{4}$ " slide carrier.

1000w. lamp £3.2.0.



AIREQUIPT Automatic Slide Changer for trouble-free storage and projection of 2"x 2" slides. Fits Aldis projectors and many other makes. With one 36-slide magazine. £4.15.0

Extra magazines 14/9 each.



ALDIS 'MAGICOLOR' VIEWER enlarges 35 mm. or Bantam size transparencies four times. Complete with batteries and storage box to take viewer and 48 slides. 78/9



PAXETTE IL Precision-made 35mm. camera by Carl Braun of Nuremburg with f/2.8 extra wide aperture Enna-Werk Anastigmat Iens Prontor S.V.S. 9-speed light-value shutter, and super-luminous viewfinder

£20.7.1



PAXETTE 2L has coupled rangefinder and is available with a choice of four f/2.8 lenses. Coupled wide-angle and telephoto lenses are also available. Prontor S.V.S. shutter and superluminous viewfinder.

Prices from £32.12.2



FERRANIA IBIS 44. An inexpensive, but exceptionally well-made camera, taking 12 pictures (4 x 4 cm.) on 127 roll film. Ferrania f/7.7 65 mm. acromatic lens: speeds 1/100, 1/50 and B.

IBIS 34. Similar in appearance and quality to IBIS 44 but takes 16 pictures (3 x 4 cm.) on 127 roll film. **£4.7.2**



BAUER 88B is a double-eight cine camera with lenscoupled photocell exposure meter, Schneider Xenoplan f/1.9 lens, 4 speeds and single picture device. Parallax-corrected view-finder. £62.14.5



BAUER T 10 L 8 mm. projector giving exceptionally large pictures in a small room. Kiptagon f/1.4 16 mm. lens, special optical system, 12v. 100w. lamp.

T 10 S With socket for synchronised sound coupling. £45.0.0

Protective cover 35/-



Easy to erect—sturdy construction—high quality finish—remarkable value. Stands on its own feet or may be hung from picture rail or hook. In matt white or glass-beaded finish, sizes from 26" x 20" to 83" x 63".

Prices from £2.2.0

Sole Wholesale Distributors:

NEVILLE BROWN & CO. LTD. 77 NEWMAN ST., LONDON, W.I

Tel.: LAN 7161 (10 lines)

Trade Counter: 3 BERNERS MEWS, W.I (rear of building)



another big seller

National advertising campaign starts October 28th



You know from your own sales how hair beauty products are booming. It is the fastest expanding market in the beauty field, and SHINING LOOK will prove to be one of the biggest selling hair products you have ever stocked—and it gives you a big margin of profit. SHINING LOOK, the newest creation of L'Oreal · Paris, is a feather light dressing in cream form which gives the most natural radiant shine ever given to

women's hair. It will appeal to all women of all ages. Remember the success of Colør-Glo? SHINING LOOK will be launched with the same advertising and sales "know-how" behind it.

SHINING LOOK is from L'Oreal Paris, the world's greatest makers of hair beauty products—you can be sure it will live up to every claim made for it, and that repeat sales will come regularly.

STANDARD TERMS:
18/- per doz. plus 9/- tax
Retail price 3/- per tube

BONUS TERMS
12 charged as 10
i.e. 15/- per doz. plus 9/- tax

Introductory Bonus Offer and 12 Charged as 10

SHOWING 80°/ PROFIT

Your wholesaler can supply you on full bonus termsorder now, before the advertising starts on Oct. 28

Offer closes 30th Nov. 1959

Give this
attractive one
dozen display
unit a place
in the front
of your counter



A creation of L'OREAL · PARIS



from L'Oreal-Paris



Daily Mirror 6,343,000 women readers

Daily Express 5,268,000 women readers

> **Daily Mail** 2,801,000 women readers

Daily Sketch 1,847,000 women readers

s your hair a bewitching, shining beauty you have never known before avoc in the hearts of men.

ir g eyes. Now miraculous to your hair - every single A touch of SHINING LOOK, ke on a new enchanting d exciting product from Paris. It is a delicate dis-

solving cream, light as gossamer, that gives a silken brilliance to every single hair, without oiliness, and without any clogging of one strand to another. And featherlight SHINING LOOK conditions hair too, making it soft and pliant-easier to manage, easier to set. If you want hair that shines beautifully, irresistibly, buy a tube of SHINING LOOK today. Brush a little in-look in your mirror-and you'll revel in the difference it's made. From Chemists, Stores and Hairdressers 3/- per tube.

Just brush in hining loon

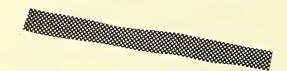
for shining, radiant hair

A creation of L'OREAL · PARIS. The World's greatest makers of hair beauty products.





Glaxo advertising is pointed...



pointed at people. Over 12,000,000 people in the case of this Glaxo half-page. Appearing in the Daily Express of October 29th it's the latest of a long series destined to tell the Glaxo story in large circulation publications for many months to come. No baby talk in these advertisements! Glaxo are telling almost every mother in the country what they want to know; why they can, and should, trust their children to Glaxo care, Glaxo are stressing the extensive scientific experience that lies behind Ostermilk and Farex . . . talking the way no other maker of baby food has talked—or can talk—ever.

Profit from the confidence created by this original and persuasive advertising. Check your stocks of Glaxo's Ostermilk and Farex now. Make sure you've got enough to keep *all* your customers' custom.



and Fa

OSTERMILK and FARE

by over 12 million readers



vertisements will be seen

DAILY EXPRESS

What's developing in the 'dark room'

Big sales! Steady, right-throughthe-Winter Sales!

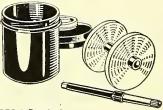
The 'dark room' days ahead
will be profitable for the dealer
who stocks these famous Johnson
accessories—known and trusted
by all 'develop-it-yourselfers'

P

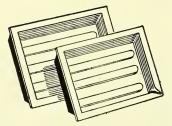
JOHNSONS OF HENDON LTD



JOHNSON Chemicals. A complete range of developers, fixers and sundry preparations for photography all attractively presented and extensively advertised. Popular lines include UNITOL concentrated fine grain developer, Universol M-Q developer and FIX-SOL concentrated fixer.



'ROTO' Developing
Tanks. Two sizes, both adjustable, Roto-One for 120 to 35 mm.
(20 expos.), Roto-Two 116 to 16 mm. the
latter taking two films at once. Rotary or
inversion agitation. With full instructions.



VOGUE Triple Purpose Dishes. In sets of three, separately coloured: Orange, grey, white. Easily identifiable for each processing job. Strongly moulded in plastic, in half-plate and whole-plate sizes.

FOR CONFIDENCE IN PHOTOGRAPHY



"SKYLON" POLYTHENE HOT WATER BOTTLES

A P.A.T.A. LINE

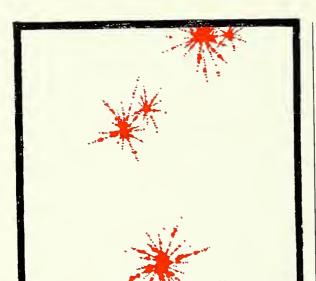


Illustration above shows the range of colours in which the new "SKYLON" polythene hot water bottles are being made. Light in weight and complete with Polythene cap and rubber seal.



"SKYLON COMFORT"

Packed in polythene bags with attractive "Sales-Appeal" design showing, in silhouette, a Teenager in shortie and alternatively, Father in his nightshirt and cap, they are, with their bright colours a sure selling line for young and old. Ask your Wholesaler to show you the bottles in their printed wrapper and stock up now—you know our climate!



We can supply bulk vitamins in all categories. Capacity also for large scale ampoule production. Look to Vitamins Ltd. for your vitamins. Enquiries will receive immediate attention.



Bulk vitamins and ampoule production







Get your vitamins from **VITAMINS LTD.**

Bulk Sales Dept., Vitamins Ltd., Upper Mall, London, W.6. Telephone: Riverside 5001 Telegrams: Vitabemax, Hammer, London. *******

The Better The Proposition Proposition

OR

* YOUR * YOUR CUSTOMER

COLOUR CRÈME

New and exciting! Rich creme in a tube that conditions as it tints. Easy and pleasant to apply and absolutely permanent.

Wholesale 3/4 + P.T. Retail 6/8.

Chemists' Profit 1/8

INECTO RAPID

Has a 40-year reputation as the world's supreme recolourative. Known and asked for by name. It sells and sells and sells.

Wholesale 2/6 + P.T. Retail 5/-

Chemists' Profit 1/3

"HAIR MAGIC"

The fastest selling semi-permanent colouring of all with a 5-minute self-timing colour control. Pure Ash, true Reds, soft, subtle Golds and rich deep or light Browns—Brown, Ashen Brown, Chestnut Brown. And now—Deep Black!

Wholesale 1/8 + P.T. Retail 3/10.

Chemists' Profit 1/4

INECTO

THE PERFECT HAIR COLOURING

INECTO HOUSE 27 DOVER STREET, LONDON, W.1.

HYDe Park 7541

"The most experienced and largest manufacturers of hair colouring in the world"



S-M-A is the trouble-free infant food

Not only does S-M-A provide the bottle fed infant with a complete, natural-balance diet, it gives you a trouble-free selling line with a higher profit per tin.

Note these important points for you

- A profit of 1/9d. on every tin you sell.
- 2 Unlimited shelf-life. S-M-A is packed under nitrogen in sealed tins.
- **3** Only one strength of food. No stock duplication problems.
- **4** Ethical promotion and distribution through the chemist.
- **5** Comprehensive point-of-sale material available on request.

PACKS:

1 lb. tins. Retail price 9/- (less than 1d. per oz. of prepared food)

The nearest approach to mother's milk



trade mark

JOHN WYETH & BROTHER LIMITED, CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.I



The vast potential of the multivitamins market is but one of the spheres in which capsules are proving their tremendous advantages. They are easy to handle, attractive to look at, simple to take; yet soluble . . . and they protect the contents. Capsules, in short, can add great sales appeal to your product, and at the same time iron out a lot of your production headaches. Add to all this the resources of the R.P. Scherer organisation . . . a complete service unit to handle every stage of encapsulating: production of pharmaceuticals to your own formula, material analysis and complete laboratory control, encapsulating and checking, packing and delivery. You maintain complete control of your formula, and have the exclusive use of the shapes and colours of your capsules. This service is at your disposal for experimental work too. So why not contact R.P. Scherer NOW?



and a MUST for MULTI-VITAMINS

cherer Ltd

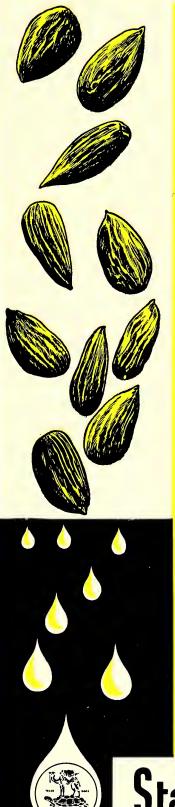
216-222 Bath Road, Slough, Bucks, 'phone: Slough 21241

Natural Cold Pressed Almond Oil, a StaffordAllenS speciality. Pressed from high quality almonds without any chemical, water, or heat treatment at our works at Wharf Road.

For use in hand creams, cosmetics and for pharmaceutical use this natural vegetable oil cannot be surpassed. StaffordAllenS Almond Oil is shipped to most countries of the world. StaffordAllenS also press high quality Apricot Kernel Oil. Samples will gladly be sent on request.

STAFFORD ALLEN & SONS, LTD. WHARF ROAD, LONDON, N.1

Tel: Clerkenwell 1000
Grams: Stafalens, Nordo, London



NATURAL

COLD-

PRESSED

ALMOND OIL

StaffordAllenS

RETAILERS!

Over 40% Profit on R.S.P. for you

Our representative will give you details and eye-catching display material including an elegant plastic stand.

New! A glamorous new bott New! Nulon in a tube

TRADE PRICES

Tubes:

11/8 per doz.

Small bottles: 10/3 per doz. Large bottles: 15/2 per doz. RETAIL PRICES

Tubes: 1/10 Small bottles: 1/7 Large bottles: 2/4½

New! An exciting sales-getting TV Campaign!

It will tell women everywhere the Nulon story—how, when their hands are in and out of water all day, they need Nulon—because Nulon has lanolin, glycerine and almond oil, the three perfect ingredients for hand care.

The new bottle and the new tube will be featured in the television campaign.

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IN WHITE FLINT GLASS CONTAINERS



PLAIN OVALS

4-oz., 8-oz. and 16-oz.

BOW-FRONT PANELS 1-oz, to 8-oz, and 16-oz,

OLIVE OIL BOTTLES

2½-oz., 5-oz. and 10-oz.

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Nos. 1 to 7½ sizes

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Tall and Semi-squat. PANEL FLATS

1 oz to 4-oz.

VIALS 1/2-0z. to 3-oz.

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AMBER BOTTLES. We can now offer certain types of glass containers in Amber and your enquiries are invited.

Prompt delivery from stock

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BIG NEW ADVERTISING DRIVE FOR Pompete shampoo spray!





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Obtainable through Boots, Timothy Whites & Taylors, Ironmongers, Departmental Stores and Chemists.

Pompette shampoo spray - Only 12/6 including purchase tax

A CROYDEX HOUSE PRODUCT

Between now and Christmas over 22,000,000 women will be seeing this advertising in popular women's journals—WOMAN & BEAUTY, MY HOME, SHE, VANITY FAIR, WOMAN'S MIRROR.

There'll be a huge gift-demand for POMPETTE!

PROFIT
WITH POPULAR
POMPETTE!



Selected by the Council of Industrial Design for display in the DESIGN CENTRE

ORDER NOW FROM YOUR USUAL WHOLESALER

or write: THE NEW CROYDON RUBBER COMPANY LTD 36, Mitcham Lane, Streatham, London, S.W.16. Tel: STReatham 0171

'SP1' BENCH TABLET MACHINE

Ideal for small batches and experimental work

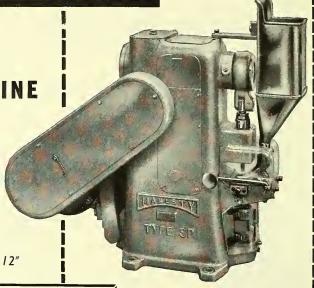
Power operated. $\frac{1}{4}$ h.p. motor

Worm gear drive (running in oil bath)

Output 65 tablets per minute

Maximum tablet diameter 1/2"

Bench space I' 3" x 2' 5" · Base size II" x 12"



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Telephone: Hunts Cross 1972

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CHEMISTS ALL OVER BRITAIN! YOU CAN ALL MAKE BIG PROFITS FROM

PIUS ALL-AREA T.V. COVERAGE INCREACED NATIONAL PRESS

GON is a highly effective chilblain treatment and preventative in tablet form—each tablet containing 10 mgm. acetomenaphthone and 50 mgm. nicotinamide. Continuing its outstanding success GON will be supported this year with even heavier advertising in women's magazines and all-area T.V. coverage. Gon is distributed ONLY through chemists—only chemists can benefit from this wide scale advertising. Take advantage of the special bonus offer which boosts your profit to 63%. Place your order NOW!

Packing: Display outers of 12 boxes of 24 tablets retailing at 3/- a box.

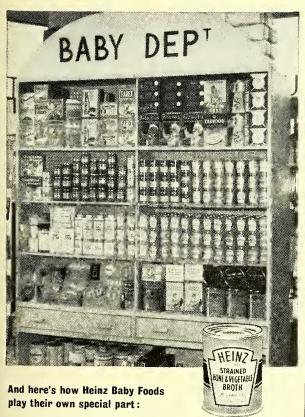


BONUS OFFER During 19 October to 30 November only! Orders of 2 doz. and over-each doz. charged as 11 packs

Please send on bonus terms.... doz. GON. Please state your wholesaler To: WARD, BLENKINSOP & CO. LTD., YORK HOUSE, 37 QUEEN SQUARE, LONDON, W.C.I.

This is a Baby Corner

- ... and this is why you really need one:
- * All goods are within easy reach of the consumer.
- ★ Arrangement of foods and other goods in logical order makes selection easy, encourages buying.
- ★ Offers customers a full range builds sales *plus* goodwill.
- ★ Items can be displayed according to relative rates of sale, making for easy service and economical stock cover.



* They're fast-moving

Heinz Baby Foods are bought every week—at least! They are one of the fastest-moving lines you carry, and they keep bringing mothers into your shop.

- * Sales are increasing
 - Sales of Heinz Baby Foods have doubled over the past 5 years.
- * Heinz can help . . .
 - ... by advising you on a Baby Corner layout and by servicing your stocks of Heinz Baby Foods.

HEINZ Baby Foods



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaccutical Society of Northern Ireland

Volume 172

October 24, 1959

No. 4158

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which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

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Hndocil

- * It is sold only through chemists
- * There is a 12½% display discount on all orders for one dozen or more—in addition to the normal discount of 33½%
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These points mean greater sales and profit for you, if you

Prominently display



Tubes 5/2 (including P.T.)
Featherlight jars 12/- (including P.T.)

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CHEMIST AND DRUGGIST

Volume 172

OCTOBER 24, 1959

No. 4158

Trade in Pharmaceuticals

O.E.E.C SURVEYING CURRENT RESTRICTIONS

A SURVEY is being carried out by the Organisation for European Economic Co-operation of regulations hampering international trade in pharmaceutical products. The aim is eventual reduction or abolition of such obstacles.

At a recent meeting of the O.E.E.C. chemical products committee, which is undertaking the work, information supplied by member countries on their own regulations was studied, and it was decided to ask for further information to enable a complete picture to be formed. Enough has already been learned to show that regulations vary widely from country to country. Some are concerned with import restrictions such as licences, permits and taxes. Others include the limitation of types of estab-lishment permitted to sell pharmaceuti-cals, price control, and the existence of lists of prescribable medicaments under health insurance schemes. In providing information required to complete the survey member countries have been asked to list the difficulties encountered by their own manufacturers and exporters in introducing their products into other countries. On completion of their survey, the chemical products committee will consider what steps can be proposed to eliminate so far as possible the existing handicaps to trade.

P.A.T.A.

COUNCIL ELECTION AND MEETING

THERE are twelve seats on the council of the Proprietary Articles Trade Association open for election. Members of the council due to retire at the end of the year are:—Manufacturers' Section, The British Drug Houses, Ltd., J. Grossmith & Son, Ltd., Thos. Marns, Ltd., John Steedman & Co.; Wholesale Section, Barclay & Sons, Ltd., J. R. Gibbs, Ltd., May, Roberts & Co., Ltd., Smith & Sons (Norwich), Ltd.; Retail Section, H. R. Brown, A. R. Cross, C. H. Foster, W. T. Stoyle. Members may nominate candidates for the vacancies in their respective sections. Nominations may be received by the secretary at 43 Gordon Square, London, W.C.1, up to and including November 9. The quarterly meeting of the council was held on October 13, the president (Mr. N. C. Jeffery) in the chair. Meetings of the three sections preceded the meeting. The president, on behalf of the council, welcomed Mr. J. K. McPhie, who was attending his first council meeting as the representative of Johnson & Johnson (Gt. Britain), Ltd. A welcome was

also extended to Mr. C. C. Green, the newly appointed deputy secretary of the Association. The secretary reported that during the past quarter the Asso-ciation had continued its routine pricemaintenance activities on behalf of a number of manufacturer-members in respect of their price-maintained products. At the request of those members some 260 visits were made by the Association's representatives on price-cutting traders and some 200 test purchases made. In addition, more than 100 letters were sent to retail traders on behalf of and at the request of seventeen manufacturer members whose products had been the subject of price-cutting. In a number of instances assurances had been received that the correct prices would be charged in future sales, During the period under review there had been no further injunction cases, but a number of cases were under consideration by the Association's solicitors. The treasurer (Mr. R. G. Dyas) reported on the financial position of the Association, which was more satisfactory than for the corresponding period of 1958. The secretary reported that since January 1958, when the subscription had been increased, 300 new members had joined the retail section of the Association. Unfortunately, a number of members in that section had lapsed and arrangements had been made to approach all retail non-members, bringing to their notice the functions and benefits accruing from the work of the Association. The council remitted to the publications committee consideration of the form in which the next issue of the Association's Year-book and list should be published. The next meetings of sections and the full council were arranged for January 14, 1960.

Not the British Product

STATEMENT BY A MANUFACTURER

THE London Daily Express carried on October 20 a story headed "Talcum Powder Killed 69 Babies, Say Police." The fatalities occurred in France. In at least one provincial edition of the Express the product was referred to by name as Baumol. A product of that name being on the market in the United Kingdom, its manufacturers, Duncan, Flockhart & Co., Ltd., Edinburgh, have written to the Editor of the Daily Express asking him to inform his readers that the company's preparation has no connection whatever with the product mentioned in the report from France.

Dangerous Goods

RAIL AND SHIPPING LABELS

THE Amendment List No. 3 to the 1957 Report of the Standing Advisory Committee on the Carriage of Dangerous Goods and Explosives in Ships (H.M. Stationery Office, price 3s. 6d.), contains revised instructions concerning compressed gases, as well as on certain limited quantities of laboratory chemicals and medicinal prepara-



PHARMACY CLUB DINERS: Some of the diners at the annual dinner and dance of the Sheffield Pharmacy Club, held locally on October 1.

tions. The Standing Advisory Committee, and the Association of British Chemical Manufacturers, have agreed on the designs of dual purpose labels that can be used instead of separate rail and shipping labels on packages despatched by rail in the United Kingdom and by sea. They are illustrated in the appendix.

Post-graduate Study

FIRST LECTURE OF A SERIES

FIRST lecture of a pharmacy extension course, "New Medicinal Agents," given at the School of Pharmacy, Chelsea College of Science and Technology, Manresa Road, London, S.W.3, on October 13. A total of 130 pharmacists from retail, hospital and industry attended, together with thirty-six members of the staff and research students of the School. The series was intro-duced by Dr. Arnold H. Beckett (head of the School) who explained that the courses were not another series of revision lectures. They were designed to be an extension of the post-graduate work of the School and as part of a plan to bring the School into close association with all sections of the pharmaceutical profession. Mr. Lewis Priest, B.Pharm., M.Sc., F.P.S. (department of pharmaceutical sciences of the Pharmaceutical Society) gave the first of two lectures on "Tranquillisers and Stimu-The formal discussion that followed illustrated the wide range of interest shown in the problems of administration and use of those drugs. The lectures on tranquillisers are to be followed by lectures on corticosteroids, hypotensive agents, diuretics and anal-gesics. As a result of the co-operation of the pharmaceutical industry, supplies of technical literature (together with displays illustrating the various dose forms) are to be available for pharma-cists attending the lectures.

Leicester School

"OUTSTANDING" EXAMINATION RESULTS

MR, C. Gunn (head of the School of Pharmacy, Leicester College of Technology) described results in the Pharmaceutical Society's qualifying examination this year as "outstanding" when he spoke at the annual prize day on October 14. Forty students passed the examination during the year. The intermediate pharmacy class during the session had been the biggest ever, although results in that section were not so outstanding, 55 per cent. (sixteen students) passing. The number of students at the school, Mr. Gunn stated, had been maintained at 165. Prizes were presented by Mr. H. S. Grainger (chief pharmacist, Westminster Hospital and a member of the Council of the Pharmaceutical Society).

Scottish Department

INVESTITURES FOR SEVEN CHAIRMEN

ON October 14, the president of the Pharmaceutical Society (Mr. G. H. Hughes) attended a meeting of the Executive of the Scottish Department at 36 York Place, Edinburgh. After luncheon the president presented badges

to six past-chairmen of the Scottish-Department: Messrs. C. G. Drummond, C. W. Macfarlane, H. T. Thomas, S. Hughan, W. A. Park and J. B. Grosset. That evening the president, accompanied by Mrs. Hughes, attended a dinner in Stirling, held by the Stirling and Central Scottish Branch of the Society where he invested the chairman of the Branch (Mr. E. E. Imrie) with a new badge of office subscribed for by Branch members, On October 15, Mr. Hughes addressed a meeting of the Dundee and Eastern Scottish Branch.

Pesticides

DRAFT COMMON NAMES

CONSIDERATION is being given to the following draft names for the four pesticides. Any comments should be addressed to Mr. R. K. Thomas, British Standards Institution, 2 Park Street, London, W.1.

PROPOSED COMMON NAME	CHEMICAL NAME
etem	hexahydro-2,7-dithio-1,3,6- thiadiazepine
	thiadiazepine
morphothion	OO-dimethyl S-(morpholino-
	carbonylmethyl) phos- phorothiolothionate
	phorothiolothionate
naptalam	N-1-naphthylphthalamic
	acid
nicroton	2-(1-methyl-n-heptyl)-4,6-
)	dinitrophenyl crotonate

IRISH NEWS

THE NORTH

Associates' Section

MONTHLY MEETING OF COMMITTEE

THREE members of the committee of Ulster Chemists' Association due to retire, indicated at a meeting of the committee on October 12, in Belfast, that they did not wish to stand for re-election. Mr. W. T. Hunter (chairman) was in the chair. The following members, due to retire from the committee offered themselves for re-election:—Pharmaceutical Chemist Representatives, Messrs. R. J. Davidson, J. H. Galbraith, W. Mitchell; Student Representatives, Messrs. R. G. P. McMullan, A. J. T. Thompson. Messrs, J. Kerr, E. G. Mackle and J. Johnston, who were also due to retire, did not wish to offer themselves for re-election, and Mr.

A. J. T. Thompson qualified during his term of office but was eligible to stand as a pharmaceutical chemist representative. That left one vacancy for a pharmaceutical chemist representative, and two vacancies for student representa-tives, It was unanimously agreed that Mr. W. R. Davidson should be co-opted to fill the pharmaceutical chemist vacancy. The chairman spoke of the committee's regret at the resignations of Messrs. Kerr and Mackle, who had been ardent committee members for a great many years, and said he wished to place on record the committee's appreciation of their services. That was supported by Mr. R. J. Davidson. It was unanimously agreed that £25 should be donated to the Northern Ireland Chemists' Benevolent Fund. The following were approved for associate-ship:—Pharmaceutical Chemist, Mr. W. P. J. Gorman; Unqualified Assis-tant, Miss A. L. Smith; Unregistered Assistant, Mr. J. Neill; Apprentice, Mr. J. Lavery.

THE REPUBLIC

Benevolent Fund Dance

RECORD ATTENDANCE EXPECTED

THE annual dance in aid of the Benevolent Fund of the Pharmaceutical Society of Ireland is being held at the Gresham hotel, Dublin, on December 1. As the dance is always a social success early application for tickets is being advised. Tickets (price, 25s. each), are available from any member of the Benevolent Fund Committee at 18 Shrewsbury Road, Ballsbridge, Dublin. Any subscriptions in aid of the Fund will be gladly received by the honorary treasurers (Denis Costello and Caillin Conefrey); the chairman (A. E. Digan) or the secretary (Elizabeth Smyth). As this year marks the "coming-of-age" of the Fund, it is expected that there will be a record attendance.

Fertiliser Production

FACTORY PLAN SHELVED

THE Government of the Republic has shelved a plan for the establishment of a nitrogenous fertiliser factory to cut out imports (C. & D., August 16, 1958, p. 158). An official statement says that the Government had considered the report of a committee of





IRISH GOLFERS' DINNER: At left, among those attending the dinner after the final outing of the season of Irish Chemists' Golfing Society (see C. & D., October 10, p. 287) were Mr. H. P. Corrigar (president, Pharmaceutical Society of Ireland), Councillor P. A. Brady, T.D. (lord mayor of Dublin, and Messrs. J. A. Brown (president, Ulster Chemists' Association) and P. McAuliffe (president, Irish Drug Association). At right, Mr. M. Baynes presents his prize to Mr. Kevin Banks winner of the first bogge.

inquiry into the matter and was satisfied that the project would be "economically feasible at the prices for imported fertilisers then prevailing." However, a recent fall in the price of nitrogenous fertilisers imported into Eire introduced a new factor. The Government had accordingly decided not to put the project into operation while farmers continued to enjoy the benefits of the present low prices of fertilisers. It was proposed to complete the planning of the proposed factory so that the works could be rapidly undertaken at any time when such a step would be economically sound and of advantage to farmers.

NEWS IN BRIEF

A FIRE at the works of Wm. Ransom & Son, Ltd., Hitchin, on October 21, is not expected to cause undue delay in the execution of orders.

For an experimental period (November 12 to January 28, 1960) the Design Centre, 28 Haymarket, London, S.W.I, is to remain open until 10 p.m. on Thursday evenings. Christmas Eve and New Year's Eve are excepted.

COSMETICS, perfumes, films and other goods, worth about £200, were stolen from the pharmacy of Pynegar, Ltd., 74 Leicester Road, Loughborough, Leics, on October 7, while the shop was closed for the half-day holiday.

A DETAILED analysis of results of a survey made among members of the Road Haulage Association into the pattern of thefts from goods vehicles is published in the current issue of the Association's journal Road Way.

PAKISTANI citizens living in Glasgow have collected £3,500 towards the cost of three mobile dispensaries that they are presenting to the Pakistan Government. The money was accepted by the Pakistan High Commissioner, in Glasgow, recently.

THE Minister of Health has added hydrochlorothiazide, hydroflumethiazide, norethisterone and perphenazine, to the list of specially expensive drugs, reagents and appliances, for the supply of which doctors receive payment over and above their capitation fees. The amendments have effect from October 1.

INSTEAD of her ballot paper a Chichester (Sussex) woman placed a prescription in the ballot box, then, calling on a local chemist, she handed him a ballot paper. The pharmacist telephoned the returning officer, and in due course the prescription was recovered.

Four members of the Rumanian Academy of Sciences arrived in Lonlon on October 17 for a two-week visit to Britain at the joint invitation of the Royal Society and the British Council. They are visiting a number of universities and other centres of cientific research.

THE Committee appointed to inquire into the operation of the Truck Acts, 1831–1940 and related legislation, nvites interested persons or organisations to submit in writing by November 16 any information or comments which they wish the Committee to consider. The secretary is at 8 St. James's Square, London, S.W.1.

TOPICAL REFLECTIONS

By Xrayser

Consultation

In his thoughtful and helpful address to the members of the British Pharmaceutical Conference at Bournemouth, Mr. H. Steinman said, on the subject of branch organisation: "What is it that makes branch organisation so desirable as to make it almost inevitable? It is the need for dissemination of information at local level, with particular reference to matters of policy; the need to provide a forum on which matters of policy can be brought under virile discussion; the need to provide a two-way exchange of views." Mr. Steinman went on to emphasise the importance of that admirable doctrine when he added that it was the duty of a central body "to provide clear statements of central policy or intended policy with arguments for the case—what was being done and what it was proposed to do . . . the opportunities to discuss such policies in the knowledge that account of local action would be noted . . . the means for interchange of branch opinion at national level." It was also suggested by the speaker that head offices of national bodies should send a newsletter to each branch. Mr. Steinman's recipe, if dispensed, could do more to cure apathy than any deliberations of a specially appointed committee. But what do we find in the report of the October meeting of the Society's Council (p. 324)? "A resolution was received from the Mansfield branch strongly opposing the suggestion that the holder of any diploma in pharmaceutical technology will be entitled to registration as a pharmaceutical chemist. The secretary was asked to send a letter explaining the position." Does every branch have to write individually to ask for an explanation of the position? Is that explanation, otherwise, to be a private matter between the Council and the Mansfield branch?

New entrants

It was reported at the October meeting of the Council of the Pharmaceutical Society that the number of registrations as "student" (p. 324) had reached 177 for the present year, against 466 in the corresponding period a year ago. We had been conditioned to accept a reduction in the number of registrations owing to the changed conditions brought about by the new syllabus, and the figure is therefore no surprise. It has been described as a transition period, and the expectation has been expressed that future years will show a return to more normal figures. In answer to Mr. Jackson, one of the members of Council, who asked if the number of new entrants to pharmacy was satisfactory, Professor Macdonald said he understood that most of the colleges were full, and that many had waiting lists of students for next year. Complete figures would be of interest.

Universal providers

Mrs. Cripps, perhaps better known as Little Buttercup, was a little in advance of her time. She was the lady with the basket on her arm who introduced herself and her wares to the gallant crew of H.M.S. Pinafore:

I've snuff and tobaccy, and excellent jacky, I've scissors, and watches, and knives; I've ribbons and laces to set off the faces Of pretty young sweethearts and wives. I've treacle and toffee, I've tea and I've coffee, Soft tommy and excellent chops; I've chickens and conies, and pretty polonies, And excellent peppermint drops.

I was forcibly reminded of dear little Buttercup the other day. I passed a shop described as an electrician's, which displayed, in addition to a few electric lamps and switches, a selection of goods which made the enterprising Mrs. Cripps look like a novice. There were some fifty-seven different kinds of tinned foods; there were bread, butter and cooked meats; and there was a comprehensive stock of analgesics, laxatives, tooth-pastes, and a well-known brand of baby powder. The immediate connection of the goods displayed with the phenomenon of electricity was not apparent, but at no great distance another emporium described as a chemist offered buckets and plastic waterproofs.

LEGAL REPORTS

No Qualifications

AT Kingston county magistrates' court, recently, Wilfred Rees, in business at a drug store at Central Avenue, West Molesey, Surrey, pleaded guilty to two summonses brought by the Pharmaceutical Society. The first was that, not being an authorised seller of poisons, he unlawfully sold hyoscine (in Kwells), and the second that he had sold the poison in a container not labelled with his name and the address of the premises at which it was sold. For the prosecution it was said that Rees was not a chemist, and had no scientific or medical qualifications. The Society felt that anyone who handled medicines of that sort should have some knowledge of what they were dealing in. It was not suggested the tablets were highly dangerous, but they contained hyoscine, which was a scheduled poison, and should be handled by qualified people only. In 1958 Rees had been reminded of his position under the Act. Rees told the court he had taken over the business two years ago. After the visit of the informant he had withdrawn the remaining stock, which he had acquired with the business. He was fined £1 on each summons and ordered to pay 63s. costs.

No Name or Address

For selling poison in unregistered premises and in an unaddressed container, Henry Pelham & Partners, 17 Northumberland Avenue, London, W.C.2, were fined £5 on each summons and ordered to pay 63s. costs at Chertsey, Surrey, magistrates' court, recently. For the prosecution it was stated that the company operated a caravan site at Chertsey and in conjunction ran a shop. An inspector visited the shop and found on sale a proprietary germicide, labelled poison. It was sold to the inspector but there was no name and address on the article. Poisons were first found on sale at the shop in 1958, and the requirements of the Act were then explained to the warden and a form of application for inclusion in the local authority's list had been left. Nothing resulted from that visit, and a subsequent telephone conversation with the company's representative in London was similarly ignored. On August 7 the inspector visited the shop as an ordinary customer and was served with the germicide. Mr. P. Ryan, for the company, said the visit of the inspector was not brought to the notice of the controlling authority. The company apologised and had now rectified the matter.

"Not the Slightest Doubt"

After being found guilty of stealing a carton containing eighteen bottles, each holding ten Aureomycin capsules, total value £236 8s. from his employers, Sangers, Ltd., manufacturing chemists, 258 Euston Road, London, N.W.1, William Desmond Corridon. 37 Cantelowes Road, London, N.W.1, was sent to prison for four months at Clerkenwell magistrates' court on October 15.

Announcing his finding, the magistrate told Corridon: "I haven't the slightest doubt about this case and I don't think there is any other course I can take but to send you to prison. Prosecuting solicitor said, at a previous hearing, that the defendant was em-ployed by Messrs. Sangers as a postal clerk, and part of his duties was to stamp packages for postage from the dispatch department. On September 22, Corridon was called back from the exit gate of the building carrying five parcels, when in fact he should have had only three. Three were for posting; the other two were addressed to places in the London area which were usually delivered by van. When Corridon had been brought back to the dispatch department he was asked why he had five parcels. He denied it and said he only had three. Solicitor said it was sug-gested that the two parcels—one had been identified-were dropped into the mail bags on Corridon's way back from the gate. It was later found that the parcels, which had been identified, were addressed to London addresses where no orders had been placed.

Ten Previous Convictions

For the eleventh time, a Camberwell shopkeeper was fined at Lambeth Court on October 15 for selling poisons as if he were a qualified chemist. George Herbert William Spedding, 12 Grove Lane, Camberwell, pleaded not guilty te two summonses brought by the Pharmaceutical Society for selling scheduled poisons in the proprietary preparations Optabs and Vick cough linetus. The sales were said to have been made to an inspector of the Society who called at the Grove Lane shop and pretended to be a customer. The inspector then went to see Spedding at his other shop: 367 Lordship Lane, East Dulwich. Spedding, told of the purchases, was said to have replied that he was not responsible for goods sold by his staff. In the court Spedding told the magistrate: "Those articles were sold with-out profit. They were bought from another chemist for a particular regular customer. It is a matter of obliging a customer." Doris Simonds, 3 Kersfield Place, Camberwell, an assistant at the shop, said she bought the articles from a chemist at Camberwell Green, and stuck Mr. Spedding's label on the bottle. She said there was an elderly woman customer who asked for those things regularly. Spedding was said to have ten previous convictions for selling poisons and for describing himself as a chemist or pharmacist when he was not. He was fined a total of £50, with £10 10s. costs.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

T. LLOYD DAVIES, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Directors: Thomas Lloyd Davies, M.P.S., and Dorothy Davies. R.O.: 13 St. Peter Street, Hereford.

R. S. WAITE, LTD. (P.C.).—Capital £5,000. To carry on the business of wholesale and retail chemists and druggists, etc. Directors: Raymond S. Waite, M.P.S., and Christopher B.

Waite. R.O.: The Pharmacy, 32 High Street, Pewsey, Wilts.

DONALD PENGELLY, LTD. (P.C.).—Capital £10,000. To carry on the business of wholesale or retail chemists, etc. Directors: Donald B. Pengelly, M.P.S., and Mattie L. Pengelly. R.O.: Fore Street, Looe, Cornwall.

STANMORE CHEMISTS, LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, etc. Directors: Barnett Kitsberg, M.P.S., and Anne Kitsberg, 17 Wolmar Gardens, Edgware. R.O.: 29 Euston Road, London, N.W.1.

STANLEY HIBBERT (CHEMISTS), LTD. (P.C.).—Capital £4,000. To carry on the business of retail and wholesale chemists and druggists, opticians, etc. Directors: Stanley Hibbert, M.P.S., and Enid K. Hibbert. R.O.: 43 Wellington Street, Luton, Beds.

MOULD & BISHOP, LTD. (P.C.).—Capital £100. To carry on the business of selling agents and consultants to the pharmaceutical chemical trades, etc. Directors: Peter R. Bishop and Alan J. Mould, M.P.S. R.O.: Penryhn House, Penrhyn Road, Kingston-on-Thames, Surrey.

SHRIMPTON STERISEAL, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in appliances; packages and containers for use in connection with the sterilisation of surgical instruments, etc. Directors: Henry G. V. Milward and Leonard H. Beare. Solicitors: Pinsent & Co., Birmingham.

A. R. CROSS (WALTHAM), LTD. (P.C.).—Capital £7,000. To acquire the business of chemists and druggists formerly carried on by the late Thomas M. Hunnings at 91 High Street, Waltham Cross, Directors: Arthur R. Cross, M.P.S., Douglas G. Cross, William S. Ross and David G. Griffiths (all directors, A. R. Cross (North London), Ltd.). R.O.: 476 Hertford Road, Enfield, Middlesex.

BUSINESS CHANGES

MR. J. C. ARNOTT, M.P.S., recently acquired W. H. Hampton, Ltd., 66 Bristol Road, Gloucester.

MR. J. C. O'BRIEN, M.P.S.N.I., is to open a pharmacy in Portglenone, co. Antrim, shortly.

MR. J. H. CUNNINGHAM, M.P.S., has retired. His pharmacy at 7 St. George's Road, London, S.W.19, is now closed.

GATE ELECTRONICS, LTD. (manufacturers of telephone answering machines), have removed to a new factory at Maylands Avenue, Hemel Hempstead, Herts (telephone: Boxmoor 6464).

MR. H. SMITHSON, M.P.S., has retired from business at 14 Station Road, Langley Mill, Notts. The business has been acquired by Mr. F. Thorpe but dispensing has been discontinued.

Appointments

WELLCOME FOUNDATION, LTD., have appointed Dr. T. Hanley to be medical adviser in their medical research department.

DEATHS

DEANE. — On October 14, Mrs. Georgina E. Deane, née Barltrop, wife of Mr. Harold Deane, F.P.S., Knavesacre, Melford Road, Sudbury, Suffolk, aged seventy-seven. Mrs. Deane received her pharmaceutical training at Miss Buchanan's School, Gordon Square, London, and subsequently at "The Square." After qualifying she became pharmacist to the Northeastern (now Queen Elizabeth) Hospital for Children, Hackney Road, London. Although never holding office she took an active part behind the scenes in the formation of the National Association for Women Pharmacists. Except for a short period during the first world war, she gave up the active practice of pharmacy after her marriage, but attended Conference meetings.

HENRY.—In hospital, on October 13, Mr. Adam Calderwood Henry, former managing director of Bayer Products, Ltd., aged eighty-two. Mr. Henry's association with the pharmaceutical industry was a life-long one. He joined the Bayer Company, Ltd., Glasgow, as a representative and was responsible for the promotion of some of the earlier medical specialities (including aspirin). During the 1914-18 war he traded in pharmaceuticals under the name of A. C. Henry and in 1923, when Bayer Products, Ltd., was formed, Mr. Henry was one of the first directors. In 1939 he was made managing director of the company, a position he held until his retirement ten years later. Outside his business interests, Mr. Henry was an active member of the Friern Barnet urban district council, serving as its chairman for a time.

MERRICK.—Recently, Mr. Robert William Merrick, M.P.S., 93 Harden Road, Leamore, Walsall, Staffs. Mr. Merrick qualified in 1953.

POTTER. — Recently, Mr. James Arthur Potter, M.P.S.I., Dun Laoghaire, Eire. He qualified in 1916, and later became manager of Hayes, Coyngham & Robinson's shop in Dun Laoghaire. In 1928 he opened his own business in Bath Avenue, Sandymount, Dublin.

RUTHERFORD. — Recently, Mr. Andrew Rutherford, M.P.S., Hassendean, Ganavan Road, Oban, Argyll. Mr. Rutherford qualified in 1920 and went to Oban in 1926 to act as manager for Mr. Shepherd who had just dissolved his partnership with Mr. Samuel Lawrence. He acted in this capacity for several years and when Messrs. Boots, Ltd., took over the business in 1932, Mr. Rutherford continued as manager. He retired in 1957.

WILLIAMS.—Suddenly, on October 14, Mr. Tudor Lawrence Williams, M.P.S., High Street, Treorchy. Mr. Williams qualified in 1916.

WILLIAMS.—On October 9, Mr. Joseph Glynn Williams, a hospital representative of Smith & Nephew, Ltd., aged fifty-two. Mr. Williams first joined the company (which was then Beiersdorf, Ltd.), in 1936, and he was then the second home trade representative to be employed by them. With the exception of the war years, he had re-

presented the company in all spheres—medical, hospital and chemist.

PERSONALITIES

DR. J. DAVOLL, who has been appointed assistant director of chemical research at Parke, Davis & Co., Hounslow, graduated from Cambridge in 1945, and later obtained his Ph.D. for work on the synthesis of nucleosides under Professor Sir Alexander Todd. After a further year's post-doctorate study at Cambridge he took up a United States Public Health Service post-doctoral fellowship at the Sloan-Kettering Research Institute in New York on chemical problems relating to cancer, and joined the chemical research department at Parke-Davis in October 1951.

MR. "JACK" CALDWELL, the new president of the Pharmaceutical Society of Northern Ireland (see p. 348) is a former president of Ulster Chemists' Association, which he represented on the Chemists Federation for eleven years. He is also the Association's representative to Belfast cham-

ber of trade. Born in Clones, co. Monaghan, fifty-one-year-old Mr. Caldwell served his apprenticeship in Gibson's Medical Hall, Donegall Place, Belfast, where he remained as an assistant for some years. After qualifying he served in Harmur's, Ann Street, before being appointed manager of Cherry's, Newtownards. He set up business on his own account at 75 Chichester Street, Belfast, in 1932. A keen sportsman, he is secretary of Ulster Chemists' Bowling Association, of which he is also a former president, a member of Belfast Bowling Club and of Linfield Football and Athletic Club. A former well-known horseman, he was a familiar figure at point-to-point races and show jumping meetings.

DR. T. HANLEY whose appointment with the Wellcome Foundation is announced (p. 340) has been medical adviser to CIBA Laboratories, Ltd., during the past two years and previously held appointments as first assistant, King's College Hospital; lecturer in medicine, university of Sheffield, and as a Nuffield Foundation Fellow.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Freedom

SIR,—Are pharmacists entitled to deprive the people of this country their freedom to buy whatever medicines they wish, without any reference as to whether such medicines will do good or harm?

RESTRICTIVE PRACTICE

Bonus Offers and Percentages

SIR,—Mr. Samways's letter on bonus offers, which appeared in your issue dated October 17, comments adversely upon the methods adopted by manufacturers when advertising the profit margins which their products offer the retail pharmacist. In this connection I should like to point out that two products were advertised in the C. & D. for October 1 as showing a profit margin of 80 per cent. About one of these products, D.B. lozenges (CIBA), it was stated that the profit margin was 80 per cent. on outlay, and the figures supporting that statement were clearly indicated. Thus Mr. Samways' remarks can be deemed to apply only to certain advertisements, not to trade advertisements in general.

A. W. MILES, Partridge Green, Sussex

" Loop-holes"

SIR,—I see from your report (C. & D.. October 17, p. 324) that the Council of the Pharmaceutical Society have been spending time considering "loop holes" in their advice on the sale of certain medicines. Surely these worthy gentlemen could find something more useful to do with their time than to try to stop up "loop-holes" in a document which is one large "loop-hole." It is amazing that there seems to be not one member of Council who can tell the others that compliance or non-compliance with the advice given

is entirely a matter for the individual chemist. Neither the Council, the Statutory Committee nor the High Court could enforce compliance. The other side of the picture, implied by the report, of chemists earnestly studying the document in order to find "loop-holes" to justify non-compliance would be laughable if it were not impertinent. I would also suggest to these amateur law-makers that questions of enforcement should have been fully considered before they issued their portentous and impertinent advice to persons who, generally speaking, are much better qualified than members of the Council to reach an objective judgment on these matters.

C. LONSDALE, Stalbridge, Dorset

Memories

SIR,—The following extract from the Surrey Comet, October 17, may be of interest to your readers. It is from a feature "100 Years Ago":—

October 15, 1859. Mr. Frederick Gould, the chemist and dentist of Market Place, Kingston, was summoned at the borough magistrates' court for taking and using the title of surgeon without legal qualification. After a hearing lasting four hours, half of which was taken up by Mr. Gould's speech in his own defence, the case was dismissed.

I remember Mr. Gould well. When I was young he was an alderman of Kingston council, had been mayor and was also a magistrate. He was nearly ninety years old when he died. He used to say the case was a test against him; he had described himself as a dental "surgeon" (that was before the Dentists Act of 1879) and further, that no case was taken against anyone else. He was a very able man when young.

LEONARD HIGGS, Thames Ditton

Discontinued. — Pfizer, Ltd., Sandwich, Kent, announce that stocks of Toclase syrup are exhausted and the product is discontinued.

Appointed Distributors. — W. Sutton & Co., Druggists' Sundries London, Ltd., Horseshoe Lane, Enfield, Middlesex, have been appointed sole distributors for Oralva oral vaccine.

Nipple-care Cream.—Massé cream is offered by Ortho Pharmaceutical, Ltd., High Wycombe, Bucks, for conditioning the nipple before childbirth or taking care of the nipple afterwards.

A Smaller Size.—F. Farthing & Co., Ltd., 44 Queensway, London, W.2, have made available a smaller size of their Apiella royal-jelly skin vitaliser. The container is individually cartoned, one doz. to display box.

Novobiocin/Tetracycline Granules.— Upjohn of England, Ltd., Fleming Way, Crawley, Sussex, point out that the tetracycline ingredient of their preparation Albamycin-T pædiatric is of equal importance with the novobiocin constituent.

At Nursing Exhibition.—A. Wander, Ltd., 42 Upper Grosvenor Street, Grosvenor Square, London, W.1, exhibited Ovaltine preparations, Chucles, Wanderlac, diabetic chocolate, Alasil tablets, Alocol, Weindervite, Cristolax and Vimaltol.

Amendment Price List.—Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham, announce that the second amendment list to their 1959 trade price list of medical products is now available. The trade price list itself, with the first amendment, is also available. Copies of any of them will be sent on request to the wholesale division of the company.

"Trouble-free" Infaut Food. — John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, draw attention to their SMA food, which "provides the bottle-fed infant with a complete natural-balance diet." Packed under nitrogen in sealed tins, SMA has an unlimited shelf life. It is available in 1-lb. tin in one strength.

Height Strip.—Chemists are invited to write to Glaxo Laboratories, Ltd., Greenford, Middlesex, for one of their Cytacon "height strips" described as the "latest idea in sales boosters." The height strip, which is available with either gummed face or gummed back, is affixed to a vertical surface near the weighing machine and enables the child's height to be taken and recorded at the time the child is weighed.

Now Generally Available. — Pfizer, Ltd., Sandwich, Kent, announce that Terramycin capsules are now generally available to the trade in bottle of 100 50-mgm. and bottles of sixteen, 100 and 1,000 250-mgm. capsules. Formerly the capsules were available only to hospitals and to the trade by special order for meeting specific prescriptions. Terramycin S. F. capsules (oxytetracycline with vitamins) and Terramycin sugar-coated tablets remain available.

TRADE NOTES

Marketing Change Pending.—County Laboratories, Ltd., Honeypot Lane, Stanmore, Middlesex, announce that negotiations have been proceeding for the purchase of the "du Lundi" trade mark and that, subject to completion of formalities, the company will be taking over, within the next few weeks, the responsibility for sales and marketing of "Body Mist." Until further notice orders should continue to be placed with the present distributors: Walter Crowe, Ltd.

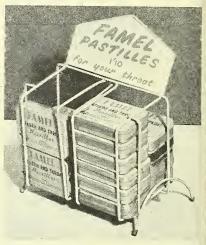
Bronchodilator "Of Choice." — Upjohn of England, Ltd., Fleming Way, Crawley, Sussex, describe their speciality Orthoxine as "the bronchodilator of choice for the asthmatic patient with cardiovascular disease." Orthoxine is understood to have twice the bronchodilating and ventilating power of ephedrine, yet to exert only a fraction of the stimulatory effect of that compound on the cardiovascular system and higher nervous centres. Each tablet contains 100 mgm. of methoxyphenamine (Upjohn) hydrochloride. The tablets are issued in bottles of twenty-five and 100 tablets.

Bottle-washing Compound.—Diversey (U.K.), Ltd. (distributors: Deosan, Ltd., 42 Weymouth Street, London, W.1) announce a new bottle-washing compound, marketed under the name of Diversey Divobrite. The product is claimed to set a new standard in bottle-washing, ensuring brilliant, sparkling bottles, with a "polished-by-hand" look that shows off the contents to the best advantage. Bottles washed in the solution emerge with even oil and grease causing no spotting problems. Diversey Divobrite is claimed also to protect the bottle-washing machine by controlling scale, thus reducing maintenance costs. The Diversey "D-man service" provides a trained man to give advice and practical help in problems affecting plant hygiene.

A Danish Mastitis Prophylactic.— H. E. Helman & Co. (Insecticides), Ltd., 10 Bank Street, Gravesend, Kent, have been appointed by Biofac A/S, Copenhagen, Denmark, the distributors in Great Britain and Northern Ireland of



Mamex mastitis prophylactic. The product is understood to have been thoroughly tested in the Experimental Dairy of Denmark, and to have received full approval. It is at present under test with the Milk Marketing Board in this country and is being shown at the National Dairy Show. Messrs. Helman announce that arrangements have been concluded for the distribution throughout the United States, Canada and Mexico of Spray-mite, Warble-mite, Firm-foot, Hel-mag and Ly-cene insecticidal specialities by Haver-Lockhart Laboratories, Cutter Laboratories, Berkeley, and the Corn King Co., Inc., Cedar Rapids, Iowa.



PILFER-PROOF: A new wire display unit by Displaywork, Ltd., 12 Henrietta Street, London, W.C.2, for Famel pastilles. The unit holds 2-doz. tins, which are removable from the serving side of the counter only.

Bonus Offers

JOHN WYETH & BROTHER, LTD., Clifton House, Euston Road, London, N.W.1. Algipan balm. Fourteen to doz. During November [corrected note].

W. SUTTON & Co., DRUGGISTS' SUN-DRIES, LONDON, LTD., Horseshoe Lane, Enfield, Middlcsex. Oralva oral vaccine. Twelve invoiced as eleven. During November and December.

J. C. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.1. Angiers Supavite capsules, "junior" aspirin, and emulsion. One free item in every doz. on all orders for Angiers products exceeding £7 10s. in list value, plus 5 per cent. discount for fourteen-day window display.

Calls for Tenders

THE Board of Trade has issued details concerning tenders sought by various overseas bodies, and an outline is given below of the requirements and closing dates. For fuller information readers should apply, quoting reference, to Export Services Branch of the Board of Trade, Theobalds Road, London, W.C.1.

First-aid equipment refills. The Chairman, Cape Provincial Tender Board, Cape Town. (E.S.B. 24114/59, November 6.)

Drugs and pharmaceuticals. Director General of Supply and Development, Frere Road, Karachi, Pakistan. (E.S.B. 24257/59, November 2); and (E.S.B. 24281/59, November 3.)

NEW PRODUCTS AND PACKS

Oral Diuretic. — The Distillers Co. (Biochemicals), Ltd., The Broadway, Wimbledon, London, S.W.19, have introduced a new speciality Direma, the DC(B)L brand of hydrochlorothiazide diuretic (weight for weight the potency of hydrochlorothiazide is ten to twelve times that of chlorothiazide). Direma is issued in unscored tablets of 25 mgm. and 50 mgm., each in tube of twenty-five and bottles of 100 and 500.

Single-dose Threadworm Treatment.—Westminster Laboratories, Ltd., Chalcot Road, London, N.W.1, announce the introduction of a single-dose treatment for threadworm. The product, Pripsen, is presented as a granular preparation of piperazine phosphate with standardised senna. It is distinguished from previous piperazine preparations in that the single dose may be given under supervision and the threadworms eradicated with less than half the amount of piperazine previously required for a seven-day course. The advantages claimed for Pripsen include reliability, convenience and safety from risk of overdosage. The product is available in single-dose (160 gr.) tube and 1-lb. tin (forty-three doses).

Cough Linctus.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, announce the introduction of Valledrine brand cough linctus which, in each fl. dr. (3'6 c.c.) of a flavoured vehicle, contains trimeprazine tartrate, 2'5 mgm.; pholodine citrate, 4 mgm.; and ephedrine hydrochloride, 7'5 mgm. Valledrine is intended for use in relieving coughs of various kinds, including the refractory post-influenzal type and those associated with bronchospasm and bronchitis. It is particularly useful in allaying the unproductive, irritating cough that is troublesome in many patients, especially at night, and it exerts a beneficial effect in relieving the spasm of whooping cough. Valledrine is supplied in bottles of 4 and 40 fl. oz. Initially, Valledrine is available only in the United Kingdom and the Republic of Ireland.

Anti-cold Tablets. — Backed by intensive commercial television and Press advertising and point-of-sale material, a new preparation, Coldrex, formulated by the Chas. H. Phillips Chemical Co., Ltd., is being launched at the end of October. Coldrex is a two-layer tablet containing phenylephrine hydrochloride and Paracetamol. It is claimed to diminish the symptoms of a cold if taken at the onset. Especially it clears nasal congestion. The dosage is two tablets as soon as the signs of a cold appear, followed by one or two tablets every four hours, depending on the severity of the cold. Coldrex contains no aspirin or codeine but has a high vitamin-C content. The box contains twelve wrapped tablets (three sets of four).

Bitch-protecting Aerosol, — Kalium Products (Redditch), Ltd., Redditch, Worcs, claim for their product Protekt-her that it is a safe way of protecting in-season bitches against the attention of neighbours' dogs. Pro-tekt-her is issued in an aerosol spray container in outer of twelve.

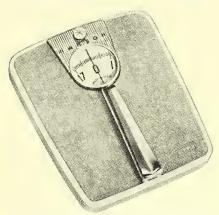
Vegetable-juice Drink.—Tom E. Hobson, Ltd., 46 Crooked Billet, London, S.W.19, are marketing a vegetable-juice drink, Biotta, imported from Switzerland. Biotta is made from the purified juice of ripened vegetables, "lactofermented" and stabilised. There are four flavours: carrot, beetroot, celery and tomato, and the container is a 25-oz. bottle.

Shaver for Car or Home.—The new Remington Auto-Home electric shaver offered by the shaver division of Remington Rand, Ltd., 26 Kensington High Street, London, W.8, may be plugged in either to a 12-volt supply on a car, caravan, boat or yacht or to a 210/240 volt mains supply at home. The Auto-Home has three twin shaving heads and is supplied with a bracket-mounted plug connector, easily fitted in a few minutes. The price includes a presentation case, leads and special attachment. There is a one-year guarantee.

Dimple-bottle Bubble Bath.—Andre Philippe, Ltd., 16 Cosway Street, London, N.W.1, are marketing a new dimple-bottle bubble bath (their No. 2) in four colours (old gold, emerald green, lagoon blue and coral red) with matching coloured capsules. The bottle is of 2-oz. capacity.

Skin-freshening Jelly. — A new speciality, "Cristal Facial," marketed by Harriet Hubbard Ayer (Telgor, Ltd., Station Road, Chertsey, Surrey), is described as a compound of natural elements, mostly floral extracts, chosen for their tonic qualities and blended into a jelly for application first thing in the morning.

Personal Scales. — The Americanmade Hanson personal scale, now being imported into England via the St. Lawrence Seaway, is available from Leonard McEwen, Ltd., 28 Orsman



Road, London, N.1. Precision-built, the scale has an equaliser-bar mechanism that preserves accuracy on carpets, rugs, tiles or uneven floors. A "stow-a-way" bracket is provided so that the scale may be hung on a wall, and the scales have a "king-size" 3-in. lens giving a large magnifying area for easy reading. Available in six colours, the scale is guaranteed for five years.

Feeder Sterilisation Unit. — The new Milton-Maw sterilisation unit illustrated provides the mother with a means of safeguarding her baby against gastro-enteritis. The simple and economical Milton method for sterilising feeding bottles ensures sterility of the bottle at the time of feed, requires no boiling water, and involves no risk of damage to teats, of broken bottles, or of burns or scalds. The unit is being introduced into hospitals, maternity homes and day nur-

series, where the individual sterilisation of feeding bottles and teats is favoured and is also available to the public. It contains a feeding bottle, a Maw's teat, a bottle of Milton solution and a polythene measure that may also be used as a teat cap. Distribution is through chemists only.

The Milton/Maw feeding-bottle sterilisation unit shown (left) presented for counter display and (right) in use.





EVALUATING DISINFECTANTS

Discussion on testing and marketing

PROBLEMS of evaluating, testing and marketing disinfectants were discussed by Dr. A. M. Cook at an evening meeting of the Pharmaceutical Society in London on October 14. PROFESSOR H. BERRY (chairman) introduced Dr. Cook, whose official title, he said, in the University was "Reader in Pharmaceutics with special reference to pharmaceutical microbiology." "This is the first time," Professor Berry said, "that a university has recognised the special pharmaceutical problems that occur in microbiology." He went on to forecast that disinfectants would be a major weapon in the hospitals' war against cross-infection.

DR. COOK, in his address, at once emphasised that common usage of the terms "disinfectants and antiseptics" had caused them to become interchangeable. That militated against any scientific definition. He preferred a classification based upon the use to which those substances were put, namely disinfection for killing bacteria in grossly contaminated material such as faeces, drains; antisepsis for prevention of the spread of infection in general aseptic and hygienic operations, in chemical sterilisation of instruments, and as preservatives in pharmaceutical products.

Advertising Outlay

Mr. Fitch in his paper at the British Pharmaceutical Conference, 1959, had shown that, in 1958, the money spent on advertising "disinfectants" and "mouthwashes and germicides" was almost £500,000. Much of that turnover was outside the profession of pharmacy, but it was hoped that, with increased critical power in the public towards advertisements, the pharmacist would have an increasing number of calls for his advice on such matters.

DR. COOK considered that evaluation of the usefulness of disinfectants and antiseptics came from experience "in the field." It was a pious hope to suggest that they could be evaluated by chemical or microbiological tests.

There was a distinction between evaluation and standardisation. It did not follow that, if X gave a better result than Y in the laboratory under one set of conditions, it was of greater value than Y in practical use. It was safe to assume that, if batch A of a formulation gave results identical with batch B of the same formulation in the laboratory, then A and B would have similar values in practice. In that case the laboratory test was one of standardisation and not evaluation. No single laboratory test would evaluate the usefulness of all the substances. Users and manufacturers should be circumspect in attaching significance to the results of a single laboratory test. What tests could be applied to a new substance or formulation to ensure that it had a chance of competing with the established substances?

Data on the relative amounts of the different substances used, and their various uses, was difficult to obtain.

With the help of the research group of the Guild of Public Pharmacists he had obtained statistics that would be of interest. Questionnaires had been sent to a representative sample of hospitals (thirty). From the replies it seemed that an average hospital was spending annually about £1,000 on disinfectants and/or antiseptics. Of that amount 42 per cent. was spent on formulations of the liquor chloroxylenolis type, 16 per cent. on formulations of the lysol type, 10 per cent. on "white fluids," 12 per cent. on chlorhexidine, 8 per cent. on quaternary ammonium compounds, about 1 per cent. on hypochlorites and a negligible amount on preservatives. The table provided one of the best evaluations of usefulness obtainable, representing several years' experience of numerous users of disinfectants. The 12 per cent. for chlorhexidine might be misleading, owing to the relatively high cost of that substance, but chlorhexidine and/ or quaternary ammonium compounds appeared to be replacing the liq.-chloroxylenol. fluids for many uses in hospitals. For disinfecting purposes white fluids and lysol were most popular. In every case babies' feeding bottles were sterilised with hypochlorite.

For skin sterilisation, iodine in spirit was most popular; for sterilisation and storage of instruments a lysol type fluid diluted with spirit was commonly used; and for general ward use the liq.-chloroxylenol. fluids were most popular except in maternity wards, where chlorhexidine, usually with cetrinide, was more frequently preferred. A fair measure of agreement in the strengths used for specific work was noted, with two exceptions: white fluids 0'3-30 per cent.; and lysol for instruments, 1'25-100 per cent.

Range of Concentration

DR. COOK showed a diagrammatic representation of the curves obtained by plotting log percentage against time of action of an antibacterial substance. Some bactericides, he said, were more easily diluted out than others; a bactericidal solution of phenol needed little dilution to lose its effect, but mercuric disinfectants retained their antibacterial activity in high dilutions. On the graph, range of concentration would be smaller with phenol than with mercury compounds; phenols had high and mercury compounds low dilution coefficients. To compile that type of curve for substances with low coefficients, an antagonist to the bactericide was used before the count of the number of organism was made. It was reasonable to suppose that, with disinfectants of high dilution coefficients, dilution alone did not completely antagonise the action of the substance.

Recent work in the speaker's laboratories showed that dimercaprol was better than thioglycollate in antagonising the bacteriostatic effect of mercuric chloride if the bacteriostat and antagonist were mixed before introducing the bacteria; thioglycollate was better in "reviving" organisms treated with mercuric chloride. He suggested that, if more efficient antagonists were found for all types of bactericide, then the true shape of the upper ends of the curves could be plotted, perhaps giving some information upon the mode of action of the bactericides. Different genera of organisms might give different-shaped curves with the same disinfectant.

Before leaving the slide the speaker referred to a dotted line, based on the work of Bean and Walters, which indicated an increase in survivors of E. coli when treated with benzchlorphenol at low concentration in the region of a few surviving organisms. Bean had explained that by proving that, from the cells killed and lysed by the phenol, there was an eludate capable of supporting the growth of surviving organisms.

Microbiological Assay

Dr. Cook divided microbiological tests into two groups: Group 1, standardisation tests for substances whose purity or formulation could not be controlled chemically; and group 2, characterisation tests on all new substances and on new or changed formulas to indicate the uses for which the substance might be tried.

Group 1 might require only a single test, but group 2 presupposed a series. The tests were microbiological and results would show variation or error; results quoting a certain error gave more information than results quoted as single values. Group 1 were biological assays and best performed using a "standard" that had the same biological activity as the test substance.

The tests could be classified into two further categories: (a) extinction and (b) counting methods. The first type were less costly in time and personnel. The conditions of the test must be rigidly standardised so that similar results were obtained with identical materials in different laboratories. Extinction tests found the concentration or time to kill off all organisms.

As tests were usually comparative, it was not essential to have 100 per cent. mortality, but it was essential to have the same mortality in each case. The end-point occurred when no living organisms, or less than a certain number of living organisms, were present in a sample. The factors that affected it were the inoculum genus and species; the amount, stage of the growth cycle and previous history; physical factors such as temperature, ph, O/R potential and whether the inoculum was a suspension or dried on a surface; chemical factors (inorganic and organic), which might give physical as well as chemical protection to the organisms; sampling errors; and the recovery medium and environment. He considered the first and the last two factors to be the major causes of variation in results.

The chances of picking out a

survivor with a platinum loop were small with a small number of surviving organisms in 5 mils. For a reasonable probability of getting a positive, about 2,000 survivors should be present in the 5 mils. Larger samples might involve risk of residual bacteriostatic activity. The technique developed by Professor Berry represented an advance in testing methods that had not received the attention it deserved.

Sampling Errors

October 24, 1959

The importance of the sampling error was underestimated. In the speaker's own laboratories a method had been established for assessing reproducibility of end-point results. suspension of vegetative organisms, grown under specified conditions, and suspended by a standardised method, had been found less variable than a 24-48-hour culture. The recovery medium had been investigated, examining in the first instance a simple peptone water, and it was discovered that autoclaving the simple peptone water was one significant factor. Results on antagonists had been reported at this year's Conference. There was an increasing tendency to use agar-plate methods for assaying bacteriostats in ointments and other semi-solid pharmaceutical preparations. The use of mercuric oxide was suggested as a standard in those assays—a procedure with which the speaker disagreed, as the test was a bioassay and standard and test should have the same biological activity as well as the same diffusion characteristics. Mercuric oxide could not act as a universal standard and should be condemned.

The dilution coefficients of the quaternary compounds were small; the end-point method for their standardisation would have difficulties until more information was published on suitable antagonists. Using a diffusion technique, a method might be developed for standardising those quaternaries that could not be assayed chemically. Characterisation tests were qualitative tests that should be focused upon the use to which the substance was likely to be put. Rigid standardised conditions were not essential, but the conditions used should be quoted with the results. In the hospital survey it was in those products submitted to a full range of quoted characterisation tests that agreement had been shown in the strengths used.

Unless a substance was designed for a specific single purpose, it was the speaker's opinion that characterisation tests should include a spectrum test, indicating the organisms on which the substance acts as a bacteriostat; and bactericidal tests, done by a counting method and plotting a time survivor curve. By careful planning, dilution coefficient, effect of pH, and temperature coefficient were obtained by a small number of tests. Ideally they should be carried out on different organisms; as a minimum he suggested a Gram-negative fæcal organism; a pyogenic staphylococcus; a pseudomonad; and an aerobic and an anaerobic spores

In the case of added substances there was no single test that would provide

a complete answer. Dried fæces, yeast, milk, blood and serum, etc., had all been advocated, but there was little evidence to favour any one substance. Dr. Cook suggested that a more rational approach would be the examination of a protein-like casein or albumin; a carbohydrate-like starch; an insoluble inorganic absorbent like tale; and possibly an oil. He also thought that the difference between adding the substance to the bacteria before the bactericide and to the bactericide before the bacteria should be noted.

The effects of the differing materials to be disinfected were difficult to assess, and tests were therefore more difficult to evolve. Some classification was possible, for example into absorbent materials (blankets); hard surfaces; and skin and mucous membranes. The problem in the first two cases was adsorption and it was essential to have an efficient antagonist for that type of test. The skin and mucous membrane difficulty was in sampling the treated surface; replicate tests are necessary. DR. Cook said he had not the time to deal with toxicity and allergy tests. He touched upon the difficulties in testing fungicides and fungistats.

Discussion

PROFESSOR BERRY, in opening the discussion, mentioned his own procedure in evaluation was using counting methods. Non-clumping organisms were essential for a satisfactory technique. One difficulty he had experienced had been the clumping properties of varying strengths of soap solution. He went on to discuss different tion. He went on to discuss different techniques he had used to overcome difficulties, and pointed out that the end-point method depended upon the presence of "resistors," which were not shown until the end of the test. In the commercial marketing of new disinfectants it was his opinion that papers should first be published demonstrating the utility value of a substance in a wide range of circumstances. He pointed out that the chloroxylenols had originally been intended to kill haemolytic streptococci. In practice, they had come to be used as a competitor to lysol.

In establishing the formula of liquor chloroxylenol, effort had been focused upon the standardisation of ingredients so that batch bacteriological testing could be eliminated in favour of chemical procedures. Sterilisation of fabrics was important in the control of cross-infection. There were aspects of the problem in which neither pharmacists nor pathologists were versed and laundry experts could contribute to their solution.

MR. G. Sykes differed from Profes-

MR. G. SYKES differed from Protessor Berry over the necessity of bioassay and its replacement in certain circumstances by chemical procedures.

circumstances by chemical procedures.

DR. BEAN said that Hibitane was capable of diffusing into a cell but was not able to penetrate a gel in the diffusion test. DR. Cook said he had seen lecithin proposed as an additive to the quaternary ammonium compounds. That would cause difficulty, as lecithin was not a standardised chemical sub-

stance. In the assessment of performance on surfaces a further factor was the presence of surface-active agents in formulations.

Professor Berry said that chemical and physical standards for lysol varied;

so did performance.

DR. NEEDHAM, emphasising the inadequacy of the Rideal-Walker test, pointed out that no satisfactory alternative had so far been devised.

MONOPOLIES IN U.S. Drug industry inquiry

SENATOR Estes Kefauver of Tennessee, whose monopoly investigating committee's plan for investigating the drug industry is to open with public hearings on November 30, says that while certain aspects of the drug manufacturing industry lie beyond the technical concept of administered prices to which the committee has been devoting primary attention, they are clearly within the committee's jurisdiction and will be explored. The hearings are to continue, intermittently, well into 1960, he adds.

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The hearings will fall into two broad categories: "product" hearings and "general" hearings. Under the former, separate hearings will be held on each of the major branches of the drug industry—antibiotics, hormones, diabetic drugs, tranquillisers, etc., the witnesses being primarily officials of the drug manufacturing companies.

the drug manufacturing companies. In the "general" hearings the committee will receive testimony from representatives of the drug industry and from responsible authorities who have been critical of some of the drug industry's practices. In addition, the question of possible interrelationships existing between drug manufacturers and a small number of large and influential pharmaceutical houses are being explored. The initial hearings in the week beginning November 30 will be of a "product" nature and directed to the corticosteroid hormones.

Sen. Kefauver reports that during the last two years his committee has been examining the problem of "administered prices" and adds that it has received more complaints about the prices of drugs than all other products put together. "Prominent among these complaints are letters from older people about the prices they must pay for drugs used in the treatment of arthritis."

A RECORD ORDER

Largest small-animal inoculation

Recently the Wellcome Foundation, Ltd., Euston Road, London, N.W.1, received an urgent request for enough Epivax distemper vaccine to inoculate 6,500 mink on a ranch in East Scotland. The order makes possible what is understood to be the biggest mass inoculation of small animals that has so far taken place in the United Kingdom. Special transport stood by to rush the vaccine to King's Cross station, London, in order to catch a night passenger train to Scotland. The urgency of the demand arose from the fact that distemper in mink is more usually fatal than in dogs.

N.P.U. AREA MEETING AT SHREWSBURY

North Wales and West Midlands chemists discuss affairs

TRAINING for assistants; whether the National Pharmaceutical Union should become a trading organisation; and compensation for "dead" stocks of medical specialities were among matters discussed at an area meeting of the National Pharmaceutical Union held at Shrewsbury on October 18.

In general structure the meeting followed the pattern of previous area meetings, but there was on this occasion, of course, no section on "C.F." Despite that minor vacuum the meeting was one of the longest-lasting (from 2.30 to 7 p.m. less a break for tea), as well as one of the best attended, of the series. The chemists of twelve counties (Anglesey, Caernarvonshire, Cheshire, Denbighshire, Flintshire, Hereford-Denbighshire, Flintshire, Hereford-shire, Merionethshire, Montgomeryshire, Shropshire, Staffordshire, Warwickshire and Worcestershire) had been invited, and around 140 turned up, straining the resources of the hotel in which the meeting took place.

The members were welcomed to Shrewsbury by the chairman of the Shropshire and Montgomeryshire Shropshire and Montgomeryshire Branch (Mr. E. Margerrison), who looked back a century or two to point out that the Welsh members would once have had a very different reception in the border citadel.

Standing orders having been approved, Mr. G. T. M. DAVID led off from the chair. Pharmacy, he said, was changing at an increasing rate from a craft to a technology. That enabled the pharmacist with a knowledge of pharmacology and a good filing system to give a better service than ever the old craftsmen could give. The changes need not alarm, but must be taken note of. A problem of the future was the declining number of pharmacies. One solution to that difficulty might be a smaller number of larger establishments, each employing two or more pharmacists. That would both ensure greater efficiency and provide a better life for each pharmacist, Another solution was possibly the running, jointly by a number of smaller units, of a central pharmacy, as in Birmingham. Maintaining the flow of entrants into pharmacy was important, and more students should receive their practical training in private pharmacies.

In a reference to the Pharmaceutical Society's statement on central-nervoussystem drugs, Mr. David said the N.P.U. had no official policy on that subject but recognised that pharmacists must accept professional responsibility for withholding drugs in circumstances where their use was undesirable. They must accept such advice as the state-

ment embodied.

Training of Assistants

A resolution tabled by Wolverhampton Branch was the first to be discussed. It called for "serious considera-tion" for a scheme of training for assistants, and included the clause:

The scheme to incorporate retail pharmaceutical procedure and basic pharmaceutics with a possible view to making available a certificate of availability in these subjects.

The mover was Mr. H. C. Moore. Wolverhampton, who suggested that a scheme operated by the Photographic Dealers' Association (a correspondence course conducted on the Association's behalf by the Pitman College organisation) might be taken as a model. The idea behind that course was to teach about the things sold and to teach how to sell them. A scheme of that kind would raise the status of the assistant and persuade schoolmasters to consider sending suitable pupils into pharmacies. The seconder of the motion suggested there should be separate courses for drug, surgical, cosmetic, etc., assist-

MR. J. WRIGHT (deputy secretary of the N.P.U.) said from the platform that the Executive agreed in principle with the resolution, but thought a correspondence course was not enough. For junior female staff practical instruction was essential, and experienced persons would be needed as teachers.

An amendment was put by Mr. A. Moseley, Birmingham, who said he could never agree to certificates for assistants: their outcome would be a

multiplication of drug stores.

After the mover had said that the intention of the Branch was that the assistant should continue to receive practical instruction from the employer, but that Queen Square should systematise the theory, the resolution, as amended, was carried.

Central-nervous-system Drugs

A resolution originally on the order paper on the subject of the Pharmaceutical Society's statement on drugs acting on the central nervous system was withdrawn in view of the publication by the Society of a second state-ment clarifying the first, but a supplementary agenda brought back the subject in a resolution calling for drugs on the Society's list, if not already statutory poisons, to be classified as poisons and their supply restricted to prescription. The purpose of the motion, which was moved by Mr. D. J. CRAWFORD on behalf of Birmingham Branch, was to see that control by the Society of distribution through pharmacists should not be stultified by condistribution through traders who were not subject to professional disciplinary action. Mr. A. H. Dyson, Birkenhead, took the view that the sale of any drug needing control should be by statute, and that if it were not so controlled it should be saleable at the discretion of the pharmacist.

E. Turner, Stoke-on-Trent, thought that the Society must have had greater evidence of harmful effects than was available to pharmacists in general, and should at least pass on that knowledge to branch secretaries. MR. T. S. COMPTON, Wolverhampton, asked for forms explaining to customers the reasons for refusing sales of the listed drugs (a suggestion strongly deprecated by Mr. Wright, who was "agin forms"), and Mr. A. E. Moss, Shrews-bury, urged full acceptance of the Society's recommendations without "waiting for further trouble." The mover having cited the diversity of viewpoints as reason for making the recommenda-tions "water-tight," the motion was carried with only three dissentients.

As might be expected, no discussion was needed to secure approval for a resolution put by Shropshire and Montgomeryshire Branch that television advertisers should be encouraged to use the phrase "from your chemist in preference to "obtainable from Boots and all good chemists" or variants. Mr. David pointed out that the Executive was already using its influence in that direction and had been successful in a number of instances.

A motion of special concern to rural chemists was put by MR. A. E. Moss for Shropshire and Montgomeryshire Branch. It sought a dispensation clause in the law relating to the sale of antibiotics so as to permit the sale of certain antibiotics to persons requiring them for their trade, business or occupation. The purpose was to enable farmers especially to obtain penicillin for animals from a wider range of suppliers than at present. He was not advocating any weakening of desirable controls, he said, but the law as it stood at present was in disrepute from being disregarded and unenforceable. From the platform, Mr. J. Wright said the Executive was trying to spur the Pharmaceutical Society to take a more active interest. Mr. David, from the chair, said the resolution would require a change in the law. It might be better to try other methods first. The resolution was passed without dissent.

The meeting also carried, with only two hostile votes, a resolution that the N.P.U. should try and persuade the Society to take a greater interest in "the daily business of the retail pharmait." macist." MR. DAVID, who thought business aspects should be left to the N.P.U., nevertheless acknowledged that the Society had given valuable help at the C.F. hearing.

Marketing Policy

A review of the work of the N.P.U. marketing policy was given by MR. C. H. SMITH (a member of Executive), who stressed the competitive value of the Union-sponsored cotton wool, glucose and hot-water bottle but said ex-tension of the series would be "a very different matter."

Birkenhead Branch then put, through Mr. Dyson, a resolution demanding an N.P.U. glucose beverage and blackcurrant juice. A supporting speaker said that chemists were in danger of losing control of a line which until recently had been 100 per cent. in their own hands. They still held 60 per cent. but he said flay reasts are independent. but, he said, five years ago independent grocers had been doing 57 per cent, of all the trade in groceries: they were now doing only 44 per cent. Faced with

present conditions pharmacists could let the products go, cut prices or compete. In his view they must compete, and the only way was to have a superior line and get the support of pharmacists generally. It would be no more difficult than operating the glucose scheme.

MR. W. H. WALTERS, Wellington, said chemists should think of organising on the lines of a co-operative trading scheme among chemist retailers, with their own series of packed goods and proprietaries, but Mr. E. NEAL, Kidderminster, deprecated any move that would make the N.P.U. a marketing organisation. It would be a mistake, he said, to sponsor beverages. His remarks prompted MR. Dyson to declare that the products mentioned in the resolution were not soft drinks but rightly within the pharmacist's province. Mr. Crawford held that marketing policy could not stand still. It must develop or die, and Mr. Moore, Wolverhampton, thought the line of development should be by Executive encouragement of local schemes such as Birmingham's. To create a "super multiple" would be impracticable. Mr. Moseley's conception of the lines of development was for N.P.U. members throughout the country to work as a team, featuring products sponsored and advertised by a specially created N.P.U., Ltd."

From such sharp divergencies of view MR. DAVID hardly gleaned a clear answer to his question whether members wanted the N.P.U. to become a trading organisation. However the resolution urging a sponsored glucose beverage and blackcurrant drink was lost.

A supplementary resolution in the same section of the agenda and calling for consideration by the Executive of the possibility of marketing "a limited number of N.P.U. sponsored proprietary preparations" was withdrawn after it had been shown that the meeting was generally in favour of the idea. MR. F. WALE, Birmingham, who moved it, suggested an analgesic tablet, a cough mixture, nasal drops and "perhaps even an antifreeze" as the range. They could be formulated at N.P.U. headquarters and manufactured under licence. Each could carry the N.P.U. symbol and could link with a national publicity scheme more purposeful than the "nebulous" one that had been abandoned. The motion was withdrawn after MR. DAVID had pointed out that it would involve a major change, for which a mandate would be necessary.

Publicity

The reasons for abandoning the publicity scheme on which a questionnaire had been taken were outlined by Mr. DAVID in the next main section of the agenda. He said the scheme had attracted 61 per cent. of possible replies, with 55 per cent, of them in favour of the scheme. That could be considered encouragingly high, but an analysis of the replies had shown a clear division of opinion between a "commercial" and a "professional" aim in the publicity. Rather than endanger the stability of the Union the Executive had decided to drop the scheme.

The Executive was now actively considering ways of pursuing the idea of presenting the chemist to the public as the proper seller of the country's medicines. Perhaps it could best be done by giving help to local schemes or perhaps by issuing a "model" local publicity plan. The Executive was hopeful of good, but not quick, results from the "high-powered" publicity committee (of which their own secretary, Mr. H. Noble, was a member) set up by the Pharmaceutical Society. He would like members' views [though none were offered at the meeting] on whether the N.P.U, should be seeking a new and more easily popularised title.

The meeting carried without discussion a Wolverhampton Branch resolution calling for a specially designed N.P.U. symbol and the encouragement of its use by members, and then passed to the next section.

National Health Service Matters

MR. J. WRIGHT reviewed the matters outstanding between the Central N.H.S. Committee and the Ministry, and the progress made in some directions. One important matter was tablet containers. Revised requirements in the British National Formulary and British Pharmaceutical Codex would call for "adequate physical protection" for tablets, and the Executive was trying to find a suitable container at low cost, since the Ministry was not proposing to change the Drug Tariff.

Mr. Wright read part of a letter from Mr. R. A. Hughes, Colwyn Bay, calling for an end to the drug testing scheme, which he described as "unjust, iniquitous and unnecessary," but Mr. Wright said he himself advocated a continuance of the scheme, brought up to date.

The first resolution in the section was rejected. Moved by Mr. DYSON, Birkenhead, it demanded payment "for any additional clerical work which [contractors] may be required to undertake for use by the Ministry's statistical department."

MR. WRIGHT said the suggestion had many times been discussed by the Executive, but always rejected. He would not like chemists' individual figures to go to the Ministry, as would happen if the Ministry paid contractors to provide them.

Similarly lost was a resolution from Wolverhampton Branch asking for the testing scheme to apply to *all* suppliers of drugs and appliances.

A third resolution in the section was, on the other hand, carried without the need for discussion after it had been given by Mr. Wright the blessing of the platform. Tabled by Shropshire and Montgomeryshire Branch it was:—

That in view of the poor response from chemists approached in past Dispensing Costs Inquiries, this meeting is of the opinion that the N.P.U. should seek some alternative method of securing factual information at the time when it is needed from representative samples of chemists.

That brought the business of the meeting to an end.

On the previous evening many of those attending had joined the visiting officers at an informal dinner, and on the Sunday morning a special service was held at the beautiful eighteenth-century circular church of St. Chad. For the ladies a programme of travel films was provided during the period of the business sessions.

BRANCH EVENTS

PETERBOROUGH

Annual Dinner

ABOUT forty-five members and friends were present at the annual "president's dinner" of the Peterborough and District Chemists' Association, held locally on October 13. Mr. A. C. Fowler (president) welcomed the guests and replied to the toast "The Association and President," proposed by Mr. H. E. Whitwell, Mr. D. H. Shrive proposed "The Guests" and the reply was from Dr. N. M. Bailey.

LIVERPOOL

Looking Forward

PRESIDING at the opening meeting of the new session of Liverpool Chemists' Association and Branch of the Pharmaceutical Society on October 1, Miss M. C. Dodd informed members that the British Pharmaceutical Conference had accepted the Branch's invitation to hold the 1962 meeting in Liverpool. "That means we shall have a lot of work to do to keep up to the standard set by other towns," said Miss Dodd. "A pilot committee has been formed and soon we shall have a meeting to discuss further planning arrangements." Committees would have to be formed to deal with hotels, publications, sports and social activities and transport, and a committee for the ladies' programme of events. Mr. J. Farrer Barnes and Mr. J. P. Murphy had done quite a lot of work in connection with accommodation at the hotels and the University hostel, and had assured her that there would be ample accommodation for all the visitors to the Conference. Afterwards Imperial Chemical Industries, Ltd., staged a film show.

STOCKPORT

A Film and a Visit

THE first meeting of the Stockport and District Branch of the Pharmaceutical Society for the session 1959-60 was held on October 5. Mr. D. P. Allen presided. A film was shown on the construction of the giant radio telescope at Jodrell Bank; it title was "The Inquisitive Giant." Mr. H. F. Officer gave a short introductory talk to the film, which was of particular local interest. He informed the members that the apparatus was well ahead of any of its type in the world, Mr. C. Mellor explained that the observations were recorded on a barograph sheet that required an expert to interpret them and long and arduous calculations were necessary. On October 7, members of the branch visited the new research laboratories of Imperial Chemical Industries Ltd., Pharmaceuticals Division, at Alderley Park. The members were given a very clear and con-cise account of the layout of the laboratories and their functions before making a tour of the laboratories.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

R. J. Caldwell was unanimously elected President of the Pharmaceutical Society of Northern Ireland at the October Council meeting, held in Belfast. He succeeds Mr. Hugh G. Campbell who, proposing him, said Mr. Caldwell had long experience in pharmacy and pharmaceutical politics, having been a member of the Ulster Chemists' Association, of which he was a past president, and having taken a keen interest in the Chemists Federation, on whose behalf he travelled to England regularly, and in the Benevolent Fund of the Society and in the work of the Council. Before vacating the chair, Mr. Campbell thanked Council members for the honour of his year of service and for their kindness and courtesy. "Our meetings have been pleasant and satisfactory," he said. He also thanked the secretary (Mr. William Gorman) for his help during the year and Mr. Caldwell for his assistance as vicepresident.





Mr. J. Caldwell.

Mr. A. Templeton.

Seconding Mr. Caldwell's election, Mr. WALTER C. TATE expressed the Council's appreciation of the way in which Mr. Campbell had conducted their affairs. "I have had experience of many presidents and have not had so much pleasure as when serving under you," he told the out-going president. "We owe you a debt of gratitude." Mr. Tate said that as pharmacists the members prided themselves on being able to compound and dispense mixtures which would be an honour to the profession and of service to the public. In the case of Mr. Caldwell there were three ingredients—a kindly disposition, a sincerity of purpose and a gentlemanly manner—which would do honour to the chair and service to the profession. Replying, MR. CAMPBELL said he appreciated such remarks from such an experienced and highlyesteemed member. Mr. CALDWELL said he appreciated the honour of being elected president and would do his best to carry out his duties with the support of the members.

Proposing the election of Mr. A. Templeton as *Vice-president*, Mr. Caldwell said he was a man who had occupied many offices in the pharmaceutical world. Mr. W. P. EWART seconded. Replying, Mr. Templeton said one of the many qualifications for the president of an important body like the Society was the ability to carry out social duties in a dignified manner. He expressed appreciation of the way in which Mr. Campbell had carried out his obligations. He appreciated the honour conferred on him, considering it a privilege to serve the Society.

Mr. Templeton proposed the re-election of Mr. R. M. Watson as honorary *Treasurer*, He had filled the office for many years. Mr. W. J. Thornton seconded. Replying, Mr. Watson said he considered it a great honour to serve again.

The following Committees were elected: Education, Messrs. W. H. Boyd, N. C. Cooper, W. P. Ewart, H. W. Gamble, G. E. McIlhagger, D. Moore (chairman), Professor

O. L. Wade and Dr. R. G. R. Bacon; Ethical, Messrs. S. E. Campbell, N. C. Cooper, W. S. Hall (chairman), J. Kerr, D. Moore, H. F. Moore, P. R. W. Shinner, R. M. Watson; Finance, Messrs. W. H. Boyd, H. G. Campbell, J. Gordon (chairman), W. S. Hall, W. C. Tate, W. J. Thornton, R. M. Watson, F. R. Moore; House, Messrs. S. G. Campbell, H. F. Moore, C. A. Quinn, P. R. W. Shinner, W. J. Thornton (chairman), R. M. Watson, Dr. R. G. R. Bacon, and Dr. J. C. Cronhelm; Law, Messrs. H. G. Campbell, W. P. Ewart, H. W. Gamble, J. Gordon, J. Kerr (chairman), G. E. McIlhagger, C. A. Quinn, W. C. Tate.

MR. GORMAN said that the number on each committee, which had previously been nine, had been increased to ten, including the president and vice-president, who were exofficio members.

MR. McIlhagger congratulated the secretary on the work involved in drawing up the committees and moved their election, Mr. S. E. Campbell seconding.

Messrs, Robert Walsh & Sons were re-elected auditors and Cleaver, Fulton & Rankin, solicitors.

Presenting his report as the leader of the Society's delegation to the Bournemouth meeting of the British Pharmaceutical Conference, Mr. H. G. CAMPBELL said it was one of the best he had ever attended and was enjoyed by all. The organisation by the local committee had been extremely good in that functions began on time but never gave the impression that the delegates were being rushed or herded about, "It is really a huge job to organise transport for 800 people and have them served at a banquet," Mr. Campbell continued. "It takes extreme care and consideration. When it goes off without fuss or hitches the organisation has been first-rate." The social functions had all been enjoyable and the papers—especially the professional ones—most interesting.

Endorsing Mr. Campbell's remarks, Mr. EWART proposed that a letter should be sent to the chairman of the Conference local committee thanking them for their splendid arrangements. Mr. McIlhagger paid tribute to Mr. Campbell for his leadership of the delegation, and Mr. Gorman said he had been pleased to see so many Northern Ireland people at the Conference.

Presenting the Education Committee report, Mr. GORDON recommended that the Christmas examinations should be held on December 4 and 5 (theory) and December 14-18 (practical). He also recommended that two applicants should be registered as students of the Society.

Accounts totalling £1,851 were passed for payment. MR. CAMPBELL said he was pleased to see the Benevolent Fund was increasing each year and that this year was the biggest. He hoped that trend would continue.

The Council impressed the seal of the Society on the certificate of qualification of Francis Hinds.

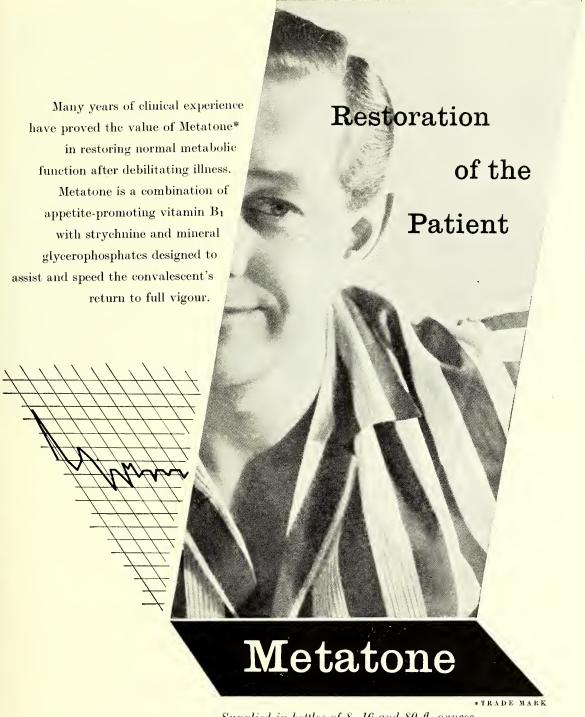
Arrangements for the Benevolent Fund dance in the Orpheus Ball-room, Belfast, on November 12 were finalised.

NEW BOOKS

Continuous Analysis of Chemical Process Systems

S. SIGGIA. Chapman & Hall (John Wiley & Sons, Inc., New York), 37 Essex Street, London, W.C.2. 9 x $5\frac{1}{3}$ in. Pp. ix + 381, 68s.

AUTOMATION in the chemical industry imposes new instrument requirements for the control of chemical processes. American progress in the subject is reflected in this volume, which provides details of equipment designed to cater for "push button" production. Sources of equipment referred to are, however, international, for there are mentioned three British, six German and one Swiss manufacturers out of sixty-one companies listed.



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Clearing up a Misunderstanding?

We have been hearing increasing criticisms of the Council of the Pharmaceutical Society for its statement on drugs and preparations affecting the central nervous system. It was therefore not unexpected to learn, from the issued report of the October Council meeting, that the Council was to issue a supplementary statement "to clear up any misunderstanding." Unfortunately, the second statement appears to have been put forward in a most inept way.

The wording of the paragraph in the Council report is itself unfortunate: "It had been suggested that certain words in the statement might be regarded as a loop-hole by persons who wished to avoid compliance

with the advice given by the Council."

The Council appears to consider that the responsibility for any weakness in drafting the statement should be placed on the dissenting pharmacists, and not

accepted by the authors.

It is to be noted also that the Council accepted a suggestion that a further note be published in the Society's journal. Looking at the *Pharmaceutical Journal* (October 17, p. 224) we note a paragraph headed "Council's statement on C.N.S. drugs" under a "Weekly Survey of Events." Not until the last sentence is reached does the reader discover any indication that the paragraph is issued with the authority of the Council as the promised official explanation. The item receives no different treatment than, say, the resignation of an official clerk.

If the paragraph was intended to be the official follow-up notice, one might have expected it to have been given some special emphasis and authority, and to have been issued, moreover, to those organs of the pharmaceutical Press which were vouchsafed the original statement. That was not done. While the Council of the Society may be entitled to reserve to its own journal matters of purely internal concern, we suggest that explanations to clear up misunderstandings are by no means in that category.

We were, as readers will recall, much in sympathy with the aims and objects of the Council of the Society in formulating the statement on C.N.S. drugs but, as we stated on August 29, the instructions should be worded clearly and without ambiguity. Even now that has not been done.

There were signs of lack of due thought and consideration in the first statement and the latest attempts are likely to cause rather than remove misunderstandings.

Weapons Against Germs

DR. Cook's address on the evaluation of disinfectants and preservatives, given at the recent evening scientific meeting of the Pharmaceutical Society (p. 344) serves as a reminder that the terms disinfectant and antiseptic are in urgent need of redefinition. A now long-standing tendency to make them interchangeable, to which regrettably pharmacists themselves have contributed, should be set in reverse if possible, so that each is given a distinct, even if an arbitrarily distinct, application. Definitions exist in some text-books, and Dr. Cook has himself provided a practicable basis for distinguishing between the two classes of product, but what, surely, is wanted is guidance at a Pharmacopæia or Codex level (supplemented, for preference, with recommendations on the precise use of other related terms such as germicide). Such definitions might well bear convenient relationship with agreed evaluation tests.

Dr. Cook favours the evaluation of all such substances by performance tests. It is now fifty-six years since the publication of the Rideal-Walker test, and it became clear in the course of the discussion following the presentation of Dr. Cook's paper that the test is now held in little regard. Yet, as one participant in the discussion pointed out, no satisfactory alternative has been found. Various modifications of the Rideal-Walker test have been designed, but all appear to be open to criticism. In those circumstances the introduction of performance tests may offer the most practical approach. Admittedly the range of uses and applications of many antibacterial preparations at home and in the hospital may call for considerable ingenuity in the devising of suitable tests. If some measure of expert agreement could, however, be arrived at, the way might be open for at least the uniform basis of comparison that everyone agrees would be a desirable advance on the present confusion. Something of that nature was no doubt in the mind of Professor Berry when he urged that papers should be published demonstrating the utility of a substance in a wide range of circumstances, prior to its launching as a purchasable product. It is certain that the informed user will appreciate factual evidence upon the performance of a new substance. The pharmacist selling it, and even the lay public using it, would likewise be glad of an evaluation based on something better than the sense of smell, which to a cynic appears too often the criterion on which the manufacturer of a certain type of disinfectant product bases his sales appeal.

A PHARMACIST'S ANTHOLOGY

NOT VERY HARD WORK

From Madame Bovary by Gustave Flaubert "Moreover," said the druggist, "the practice of medicine is not very hard work in our part of the world, for the state of our roads allows us the use of gigs, and generally, as the farmers are prosperous, they pay pretty well. We have, medically speaking, besides the ordinary cases of enteritis, bronchitis, bilious affections, etc., now and then a few intermittent fevers at harvest-time; but, on the whole, little of a serious nature, nothing special to note, unless it be a great deal of scrofula, due, no doubt, to the deplorable hygienic conditions of our peasant dwellings. Ah! you will find many prejudices to combat, Monsieur Bovary, much obstinacy of routine, with which all the efforts will come into collision; for people still have recourse to novenas, to relics, to the priest, rather than come straight to the doctor or the chemist?"

HOW TO RUN A BABY CORNER

Maximum results by attention to detail

D. J. ETHERINGTON

In the United Kingdom in 1958 a baby was born every thirty-six seconds. At this moment there are over $1\frac{1}{2}$ million babies of an age to eat the various types of baby foods on the market. It is a constantly changing market with nearly $\frac{3}{4}$ million fresh consumers each year. To the chemist that represents a great challenge; it also represents a great opportunity.

For it is to the chemist, with his large range of baby requisites, that a mother naturally turns for her supplies. During the first year of her baby's life she is a frequent visitor to the shop, and even in the second and third year is often a regular weekly visitor. Her time is valuable. How easy does the chemist make it for her to find what she wants quickly?

Too often she has to go to two or three purchase points in the shop and deal with two or three assistants. More and more chemists are realising the value of grouping all baby products, food, requisites and sundries together,

self by forming baby departments or "baby corners."

With most of the goods handled by a chemist, self-service is not a practicable proposition. However, with baby foods it has been proved in many cases that, where baby corners or baby departments have been formed, they have resulted

and where possible enabling the customer to select for her-

immediately in increased turnover.

Siting the Baby Corner

The siting of the baby corner is most important. Although the department should be intimate and exclusive in its appeal to mothers, it has been found advantageous to place it as near the door as possible, so that, if the pram has to be left outside the shop, the mother does not have to stray too far from her baby. That means, too, that she can shop more quickly. Every baby corner should have its baby scales and weight cards provided as a service to the mother and, where possible, a small table, situated near to the cash register, on which mother can assemble her shopping.

In handling the packet foods and canned foods found in a baby corner, the shelf plays an important part. It should, if possible, be at least 10 in. deep, so as to take enough stock to avoid frequent restocking. It is the general experience that shelves should not be more than 9 in. apart, as small cans and packets do not lend themselves to high stacking.

A study of space and sales has been found essential in setting up self-selection departments in supermarkets and self-service stores, and the same principles may profitably be applied in the pharmacy. By taking an analysis of one or two months' sales of all types of baby products, the products can be so spaced on the shelves that there are adequate stocks of the faster moving lines in the best selling positions.

Easy identification of the department is a tremendous advantage. A mother entering the pharmacy has her attention attracted immediately by a sign bearing the words "Baby Department" or "Baby Corner."

Setting up Products in the Department

The items found in the baby department may, if desired, be displayed in three groups: foods, requisites, and sundries. Within the first group the main products are milk foods, cereals and strained and "junior" foods. Volume selling lines should occupy eye-level positions, and sufficient space should be allowed to eliminate constant restock-

ing. In displaying, for example, the twenty-six varieties of strained and "junior" foods of a single manufacturer, careful layout is called for to ensure successful merchandising. It has proved advantageous to display the varieties in four main groups: strained vegetables; sweets; meat broths and soups; and all the "junior" foods together. That makes it easier for both customer and assistant to select the desired variety. It also ensures that maximum benefit is obtained from the space allowed because, when the mother goes to select a strained vegetable, she may, on impulse, buy more than one variety of vegetable if she sees them all together.

Within the requisites group are placed such articles as medicines, oils and ointments, powders, antiseptic lotions, syrups and shampoos. "Sundries" include such articles as toys, combs, brushes, baby photograph albums, nappies, chambers, feeding bottles, teats, feeding-bottle heaters, plates, eating utensils, cotton wool and pins.

The effect of grouping those products together encourages a mother to buy, and makes her shopping easier and more interesting; that kind of shopping brings her back to the shop.

The Personal Touch

In conclusion it must be said that, though the technique of self-selection is spreading rapidly, the chemist can always offer, in addition to self-selection, the extra service of personal interest and advice.

Onward from Galen A CURRENT CAUSERIE

On October 29 Queen Elizabeth the Queen Mother visits the East Reach Branch of the Taunton and Somerset Hospital in commemoration of the hospital's 150th anniversary. The Taunton and Somerset Hospital originated because a local doctor thought there could be a better way of celebrating the jubilee of George III on October 25, 1809, than a dinner at the Castle hotel. "As health is one of the most invaluable blessings that can be given to man, so the means of preserving it, of obviating and removing diseases, must be ranked amongst the greatest benefits that can be bestowed," Dr. Malachi Blake wrote to the editor of the Taunton Courier, now the Somerset County Herald. His suggestion for a hospital was immediately taken up, the foundation stone was laid with Masonic ritual the following April, and when the building in East Reach was opened for the reception of patients on March 25, 1812, it included "an apothecary's shop, neatly fitted up." The minutes are extant only from 1848. The earliest contains accounts showing that the drugs bill was not then the most formidable factor in health service finance. The omnibus heading "Drugs, medicines, oil, leeches, &c." amounts to only £195 15s., against £233 7s. 10d.—the largest individual item -for butchers' meat. In 1852 the house surgeon communicated, through the consultant, "his willingness now that he is in part relieved from the personal labour of dispensing to undertake the keeping of the record of diseases desired by Governors."

A CORRECTION: The amount of £14,386 received by the Benevolent Funds of the Pharmaceutical Society of Great Britain was for the period January 1 to September 16 and not as previously stated.

PHARMACEUTICAL SOCIETY OF IRELAND

Annual meeting

SPECIAL committee of the Pharmaceutical Society of Ireland is reviewing the Society's educational system and considering the possible introduction of a legree in pharmacy. That was stated by Mr. Hugh P. Corrian in his presidential address at the annual meeting of the ociety, held in Dublin on October 12.

The result of the Council election was announced as ollows:—D. J. Kennelly (585 votes); G. C. O'Neill (566); M. L. Cashman (565); K. A. Banks (547); Maurice Power 544); Laura Cunniffe (524); and R. J. Semple (425). Mr. Pullam, who was not re-elected, received 349 votes. Announcing that 641 papers had been returned, THE REGISTARR (Mr. J. G. Coleman) said that thirteen ballot papers ad been unsigned, and two were spoiled, making a valid soll of 626 votes, which represented 50 per cent. of the papers that had been sent out.

THE PRESIDENT (Mr. H. P. Corrigan) declared the first even candidates elected to the Council for three years. He ongratulated all seven and expressed confidence they would ustify the faith placed in them by the electorate. The presilent continued: "Mr. Fullam, who has lost his seat, always isplayed great balance of judgment, which made him a most aluable Council member. It is inevitable that changes must ake place in a body like the Council. Last January Mr. Toher informed us that he had to resign because of business easons, and Mr. Kissane's resignation is to come before the Council tomorrow. A past-president, Mr. Kissane feels that is he cannot devote time to Council duties it is only fair o make way for a man who can. Messrs. Fullam, Toher and Kissane have done much for pharmacy and I want to place on record that we appreciate the services they have iven."

In his address to the meeting, Mr. Corrigan said: "Last vear Mr. Power reviewed the history of our Pharmacy Bill and told you that arrangements had been made for an interiew at top level in the Department of Health. A deputation rom the Society was received on October 17, 1958, and ressed for a speedy introduction of the new Bill. A year ater we are still awaiting a move by the Department to ntroduce the Bill. I do not wonder that many of you are mpatient—and even critical of the Council's efforts—so I propose to give you a confidential summary of the chief auses of the delay."

Review of Educational System

After his summary Mr. Corrigan continued: This year aw the end of an epoch, the ending of examinations con-lucted under the pre-1952 regulations. We are seeking powers to conduct one more special examination for those who were referred in a section, but that is an extension, so o speak, of the July examination. Your Council, with seven years' experience of full-time courses and with the benefit of the opinions expressed by the College staff and extern xaminers, has had pharmaceutical courses under review. A pecial Committee has been appointed to consider our educaional system as a whole, to consider the desirability of inroducing a degree in pharmacy and to report back to the Council. Already a good deal of preliminary work has been done. For some time there has been a feeling that the estricted scope of the 1875 Pharmacy Act is too narrow, hat in addition to the proprietor-pharmacist there are now ther branches of pharmacy and other outlets for our liceniates. For that reason it is thought desirable to investigate he desirability of widening our scope. The Committee are also conducting an investigation into the value of appreniceship, and the relative advantages of its being for a short or long term.

In April 1958 the new course for pharmaceutical assisants was announced and by October last year we had regisered twenty-eight, mostly young people who had been working in pharmacies. During the past year an additional fifty students have registered, in addition to those who have registered for the science course. That is a complete vindication of the Council's confidence that the new Assistants' course would prove attractive to children leaving school. During the year we registered 107 licentiates, eleven licentiates on Apothecaries' Hall certificates and thirteen pharmaceutical assistants. Most of those were students who qualified under the pre-1952 regulations so we may anticipate a steep falling-off in numbers next year. During the year twenty-seven licentiates and three druggists died.

The Planning Committee

Last January, Mr. Miller tabled a motion to focus attention on the ever-growing practice of prescribing and supplying medicines manufactured outside the pharmacy, stating that it was fantastic that pharmacists found little scope for the skill they spent so many years trying to acquire. After a long discussion it was decided to set up a Committee (known as the Planning Committee) with power to co-opt persons with special knowledge of particular fields which would consider the conditions having an impact on pharmacy. That Committee has just completed its report, which will come before the Council in the near future. In May the Committee submitted an interim report calling the attention of the Council to the practice of dispensing prescriptions in out-patient departments of hospitals, and urging the Council to take speedy action. A letter was written to the Department of Health asking for a ruling on practices which the Council considered to be contrary to the Health Acts. The Department's reply confirmed the Society's interpretation of the Acts. A copy of the Department's letter was sent to every county manager and health authority and to every hospital in the country. Council members discussed problems with hospital pharmacists in an effort to abate abuses. Despite those efforts, it would appear that a large section of the community is being supplied with free, or virtually free, medicines. I think, however, that the action of the Council has created a greater awareness of practices to which we object, that some gross abuses have been stopped and that our continued efforts will improve the situation still further. In that connection may I remind members that sweeping allegations about malpractices are useless—a member who has a complaint should be specific and should be helpful. Too often we receive complaints that turn out to be based on unreliable hearsay and to be without substantial foundation.

A major event this year was the establishment of the Irish College of Pharmacy Fund, which is being set up to improve College facilities. It will depend for its success on the goodwill of the pharmaceutical industry. The Council have guaranteed £1,050 as a contribution on behalf of the Society's members. Preliminary work has now been completed and the appeal is being launched this month. I should like to take this opportunity of thanking the representatives of the pharmaceutical industry who have given so generously of their time during the past year, and all who have listened so patiently and sympathetically to our arguments for the establishment of the Fund.

I now wish to refer briefly to Irish Pharmacy Week. Credit must be given to the Committee who have devoted so much time to planning the organisation of the venture. Its success will ultimately depend on your support—a hardworking committee that sacrifices leisure on your behalf is worthy of support. Undertaking the Irish Pharmacy Week venture was a heavier task than ordinarily would have been the case because the Post-graduate Committee already had their hands full. That energetic Committee succeeded this year in launching a postal course which involves a tremendous amount of work. We are grateful to Mr. Boyd and his Committee.

Last year reference was made to the then newly-founded Irish Medical and Pharmaceutical Representatives' Association. I am given to understand that that body has made considerable progress—I know from personal experience that its inaugural dinner last winter was a conspicuous success receiving support from all those engaged in that important branch of pharmacy.

A unique event occurred this year when—for the first time in history—a pharmacist was elected lord mayor of Dublin. That distinction falls to Councillor Brady, a former president of the Society and a member of your Council. His appointment was a source of great pleasure to every pharmacist in the country, and to a great number of pharmacists outside the country. On your behalf I congratulate Mr. Brady and express our best wishes for his continued good health, and thank him for sparing time from his official duties to be with us tonight."

In concluding, Mr. Corrigan paid tribute to members of the Council "for the whole-hearted co-operation and helpful advice I have been given during the past twelve months," and to Mr. H. G. Smith who retired during the year from the post of Press officer.

Proposing the adoption of the president's report, MR. G. IRWIN, Blackrock, said that to most of them, the most important part of the address was the president's reference to the new Pharmacy Bill. Whether the Bill would ultimately please them all was a matter for conjecture, but one thing that was sure was that all the members would like to see it being implemented. "I am sure I am speaking for all members when I say how greatly I appreciate the manner in which the president has taken us into his confidence in the 'behind-the-scenes' discussions in connection with the Bill, I think that is a step in the right direction, and I would like to encourage the Council so far as possible to go ahead with that idea."

MR. J. SULLIVAN, Killester, seconded the resolution, and the president's report was adopted unanimously.

Treasurer's Report

The report of the honorary treasurer (Mr. M. Costello), showing a deficit of £1,385 compared with a deficit of £889 last year, was unanimously adopted on the motion of Mr. Dominick O'Shea, Cork, seconded by Mr. Patrick Joy, Clonmel, Mr. O'SHEA said that he had heard a rumour that the membership fee might be increased, but the only thing that surprised him was that members had not been liable for an increase before now. The fee worked out at only 1s. 6d, a week. He believed that the deficit was due mainly to the fact that examination fees were falling off. In a tribute to Mr. Costello, Mr. O'Shea said that if he devoted only a part of his well-known acumen and ability to the work of the Society it would be well served and a more competent person could not be placed in charge of its finances. Referring to the Benevolent Fund he said that it was one of the activities which all pharmacists could be proud of.

MR. Joy said that considering all the work that was being done throughout the country the figure for salaries and wages actually looked small to him. The Society had a lot to be thankful for in the efficient officers they had directing its interests—they were hard-working. Dealing with a suggestion that the annual subscription should be increased to £4 4s., Mr. Joy said it should be remembered that the membership subscription in the Pharmaceutical Society of Great Britain was £5 5s. It appeared to him that the Irish Society would eventually have to increase its fee to £5 5s, also because at £4 4s. the subscription would only bring receipts up to about £900 which would still mean that a deficit of about £500 would have to be met. He believed that when the time came for making good that deficit pharmacists throughout the country would agree to such an increase. Complimenting the treasurer on the excellent work he was doing on behalf of the Benevolent Fund, Mr. Joy said all members should be proud to help the Fund. He

hoped that next year, when Mr. Costello came to report on the activities of the Fund, he would have another local association to include in it—Tipperary—as they were starting something to help the Benevolent Fund in the near future.

MR. SEMPLE said that as the newly elected member of the Council he would like to thank the electors for the support accorded him. That was his fourth attempt to get on the Council, and he was proud of the fact that in that year of records—his election constituted a record on its own—he had been successful!

MR. J. J. COFFEY, Dublin, expressed the hope that everything possible would be done to expedite the implementation of the Pharmacy Bill. Stating that he took a pessimistic view of the Society's present financial position, Mr. Coffey said he looked for an improvement next year.

Mr. Costello said that when the Pharmacy Bill became law, the assets of the Society would be considerably increased through increased membership.

MR. M. F. WALSH, Dublin, said he thought the Council should give consideration to increasing the salaries of their officials. "We have excellent officers. I think they are doing an excellent job, and I feel they are all over-worked." After paying tribute to the Society's registrar (Mr. J. G. Coleman) and inspector (Mr. P. O'Briain) Mr. Walsh added that there was no occasion for pessimism regarding the Society's finances because they would be considerably improved when the Pharmacy Bill was implemented.

MR. D. MURPHY, Dublin, suggested that the treasurer in future should separate the law costs into their different categories so that they could be more easily interpreted. The report was adopted unanimously.

Proposing a vote of thanks to the president for the manner in which he had conducted the meeting, Mr. P. McAuliffe said he had acted in most business-like fashion. In his address he had given members a great deal of interesting information which the majority of members were anxious to know. Mr. R. J. Power, Wicklow, seconding, said the president had carried out his duties with great dignity during the year, and was a credit to the profession. He assured the Council of the co-operation of the Hospitals' Association in their effort to implement the Pharmacy Bill. They could be assured that they had the goodwill of the medical profession in their efforts.

MR. D. W. P. BOYD expressed the indebtedness of the Post-graduate Study Group to Mr. Coleman for the manner in which he had so willingly and readily co-operated with them in making Pharmacy Week possible. The president's address was illuminating and the capable manner in which he had dealt with the matters under review, reflected creditably on his sound judgment and experience.

Monthly Meeting of Council

ALL the officers were re-elected at a meeting of the Council of the Pharmaceutical Society of Ireland, held in Dublin on October 13.

At the beginning THE PRESIDENT (Mr. H. P. Corrigan) welcomed Mr. R. J. Semple, Dublin, who was attending his first Council meeting, and assured him of the co-operation of all members in carrying out the work of the Council. Responding, Mr. SEMPLE expressed the hope that he would be able to represent adequately the interests of those who had elected him.

Election of Officers

Proposing the re-election of Mr. H. P. Corrigan as *President*, Mr. F. LOUGHMAN (vice-president), said he believed he had the goodwill of all members of the Council and chemists generally throughout the country in so doing. During his year of office Mr. Corrigan gave great satisfaction to every member of the Council and created a great impression among chemists he had met throughout the country in the course of official visits. "I find Mr. Corrigan an admirable president, concise in his statements but always

correct and accurate," said Mr. Loughman. Mr. M. Power, seconding, endorsed everything Mr. Loughman said about the president. He, too, wished to congratulate Mr. Corrigan





Mr. H. P. Corrigan.

Mr. R. J. Semple.

on the able manner in which he had conducted the Council's affairs during the past year. In addition he wished to place on record his admiration of the capable way in which the president had represented the Society at the many official functions he had attended throughout the country "and across the water." Replying, Mr. Corrigan said he sincerely thanked Mr. Loughman and Mr. Power as well as the Council for having elected him unanimously. "I am very grateful. You have really done me a service," said the president, adding amidst laughter, "If I had been replaced during Irish Pharmacy Week I would never have lived it down!"

In proposing the re-election of Mr. Loughman as Vicepresident, THE PRESIDENT said "There is little I can tell you about him. He is well and widely known and respected by all, but I want to say he is of much more value to us in Dail Eireann at the present time than in the Council Chamber. Mr. V. G. McElwee, seconding, said he had known Mr. Loughman as a great campaigner on behalf of the Government and he knew that he would campaign just as actively on behalf of pharmacists. Replying, Mr. LOUGHMAN said he was reluctant to allow his name go forward because in the past he had not the time to attend as many meetings of the Council as he would have liked. His duties as Whip in the Dail occupied much of his time but he hoped to be able to attend Council meetings more frequently in the coming year. Mr. Loughman assured the Council that he would do all he could to see that the Pharmacy Bill was implemented in the Dail without delay.

Proposing the re-election of Mr. M. Costello as *Treasurer*, Mr. J. Gleeson said he brought great energy and industry to every task he undertook and had done an excellent job for the Society during the past year. Mr. C. J. Cremen seconded.

Replying, MR. COSTELLO said that he could not hope for anything better than to work with a team headed by Mr. Corrigan and Mr. Loughman. With a member of their Council as Dublin's first citizen, and another member Chief Whip of the Government party he thought they could look forward with confidence to the introduction of the Pharmacy Bill in the Dail with the minimum of delay.

On the motion of Mr. Costello, seconded by Mr. Gleeson, Messrs. J. J. Griffin & Co., were re-elected auditors.

On the motion of THE PRESIDENT, seconded by the VICE-PRESIDENT, it was unanimously agreed that the House, Schools and Law Committees should again consist of all Council members. Messrs. K. Banks, C. J. Cremen and D. Kennelly (outgoing), and Messrs. G. C. O'Neill and R. J. Semple were elected to the Certificates and Declaration Committee, while on the proposal of Mr. J. J. O'REGAN, seconded by Mr. F. J. Robinson, Messrs. K. Banks, M. L. Cashman, D. Kennelly, T. R. Miller and M. F. Broderick were elected to the Benevolent Fund Committee.

Arising out of the minutes, THE REGISTRAR said that with regard to the special Licence examination, he had received

a memorandum from the Department of Health acknowledging the Council's request that students who had been referred at the last examination should be given one more final chance to qualify. Not having received a more substantial reply, he telephoned the Department the previous day and was informed that provided each candidate was given individual instruction that that would be the final examination and that there would be no further extension, the Society could take it that sanction would be given to the holding of such an examination. The official believed the Minister would agree if the Department was given an assurance that it would be the final examination of its kind. The official further suggested that in view of the delay to date the examination should be put back one month to afford candidates extra time for study. The Council approved of that arrangement.

The following letter was received from Mr. John P. Kissane: "Please accept my resignation from the Council, and kindly convey to the Council and staff my sincere thanks and appreciation for their kindness and help during my term of office as president and member of the Council."

Pharmacy Bill Deputation

A discussion took place regarding the desirability of having the new Pharmacy Bill enacted with the least possible delay, and in order to expedite its implementation it was decided to ask the Department of Health to receive a deputation from the Council.

In reply to Mr. MILLER, the Registrar said that there had been only thirty-five applications from students for preliminary registration.

Mr. Costello asked what was the position regarding a child of Irish parents who was educated in England and wished to study pharmacy in the Republic. He thought it a hardship that a child, who for economic reasons might have to be brought up in England, should be deprived from taking up chemistry because he or she had not the necessary proficiency in Irish to enter College or University. In the case of foreign students the conditions regarding Irish were waived, but not in the case of a child of Irish descent, educated in England, even though she had the G.C.E. higher level standard of education. Mr. MILLER said the regulations were too water-tight. While he was not antagonistic to Irish he thought the Council should acknowledge the equivalent standard of education in cases such as that cited by Mr. Costello. It was decided to investigate the matter further.

Mr. Kennelly submitted a report on Pharmacy Week on behalf of the Post-graduate Study Group and said that the "kernel" of the week was the intensive course that Dr. Timoney devised for all pharmacists—particularly for hospital pharmacists. While last year the number participating in the course was forty, this year it had dropped to seventeen while the Group made preparations for about sixty. Mr. MILLER said he thought the Group's committee were to be congratulated. They were doing a good job of work, throwing their whole weight into the venture, and what was even more, it was being done by people outside the Council, which was a good sign. He was glad that the Week had got away to such a good start. Mr. SEMPLE said that as a member of the Hospital Pharmacists' Association his only regret was that most members who would have liked to attend the courses had not heard about them in time. The status of pharmacists had been considerably raised in hospitals and institutions on account of the work of the Post-graduate Study Group. He thought that next year they would get 100 per cent. response.

MR. MILLER said he would like the report of the Planning Committee to be forwarded to Mr. Semple, and if possible to have the report discussed at the next Council meeting. Members of the Council had had a copy of the report for over a month and should have formed opinions on it

(To be concluded)

CONFERENCE SCIENCE

Papers read and discussed at Bournemouth, September 21-25

(Continued from The Chemist and Druggist, October 17, p. 328).

Phenolic Ethers as Antifungal Agents

L. V. COATES, D. J. DRAIN, F. JUNE MACRAE and K. TATTERSALL

A SERIES of phenolic ethers, derivatives of hydroxybenzoic acids, benzalde-hydes and cyclophenones have been prepared and tested *in vitro* for antifungal action. The highest activity was found in those compounds having an amyloxy group ortho to a carbonyl radical. Data are presented on the in vivo antifungal activity and toxicity of 2-n-amyloxybenzamide and 2-n-amyloxyacetophenone.

(From Smith & Nephew Research, Ltd.)

Discussion

MR. G. SYKES, Nottingham, asked whether a solvent consisting of a waterethanol-alcohol mixture might not give a false high result through stimulation of growth by the alcohol a

Mr. TATTERSALL said that various solvents had been tried; the one chosen had no action on the fungus within

twenty-four hours.

Sodium Novobiocin: Stability Aspects

M. J. BUSSE, K. A. LEES and V. J. VERGINE

Novobiocin is a dibasic acidic anti-biotic produced by the antinomycete Streptomyces niveus. In neutral to slightly alkaline solutions it exists as the monosodium salt, the disodium salt being formed in strongly alkaline solution. The stability of monosodium novobiocin has been examined. The solid antibiotic has been shown to be sensitive to light but, if properly protected, to be stable for a period of two years at 20°. In aqueous solutions and suspension it is affected by increase of temperature, pH and certain heavy metals. Phosphate, and possibly sulphate, also cause decomposition. Concentrated solutions of novobiocin become coloured, particularly above 20° and in the presence of air. Light has little effect on potency but irradia-tion with ultra-violet light accelerates potency loss in solution. There appears to be no difference in the potency stability of three different batches of sodium novobiocin. Ultra-violet spectrophotometry cannot be used as a method of assay.

(From Glaxo Laboratories, Ltd.)

Discussion

Mr. A. R. ROGERS was given the information that a Hanovia mercury vapour lamp was the source of ultraviolet light used in the irradiation tests and that the containers of the suspensions and solutions were of glass.

THE AUTHOR agreed with MR. SYKES

that accelerated storage tests were "only a guide." Dr. WHITTET said that if sodium metabisulphite were found to accelerate decomposition rather than retard it "we may have to reassess the value of metabisulphite by itself." Often nitrogen filling was

necessary too.

MR. G. R. WILKINSON, Potters Bar, stated that until recently it had been believed that storage tests carried out at a high temperature could be related to storage at room temperature. only way to test products under market conditions was to subject them to the same conditions.

"Footprints" in Adsorbents

A. H. BECKETT and PATRICIA ANDERSON THE aim in investigating the possible preparation of three-dimensional footprints in adsorbents was two-fold: to provide a new method for elucidating the configuration of molecules and to try to produce models of biological receptor surfaces. The preparation and application of stereo-selective adsorbents involves the preparation of "footprints" of the desired three-dimensional arrangement in silica gel by forming the gel in the presence of the reference molecule, drying and reducing to a powder and extracting the reference molecule from the surface layers of the adsorbent. The adsorbents distinguish sterioisomers of the same, from those of different configuration provided the molecule used to prepare the configuration footprint is not too dissimilar in structure from the molecules to be adsorbed. Good discrimination was obtained using cinchona alkaloids as reference molecules. A gel with a quinine footprint will adsorb quinine and cinchonidine (same configuration) more readily than quinidine and cinchonine (different configurations) but a quinidine adsorbent will adsorb quinidine and cinchonine more readily than quinine and cinchonidine. Stereoselective adsorbents may be prepared to distinguish between enantiomorphic analgesic-type comenantiomorphic analgesic-type com-pounds; for example, a gel with foot-prints of levorphan will adsorb levorphan better than its enantiomorph dextrorphan; the gel will adsorb both enantiomorphs better than a blank gel prepared to be devoid of footprints. Morphine, the analgesically active isomer, is adsorbed to a gel with levorphan (analgesically active) footprints slightly better than on a gel with dextrorphan (analgesically inactive) footprints to indicate that probably morphine and levorphan have the same steric-arrange-

(From the School of Pharmacy, Chelsea College of Science and Technology)

Discussion

In reply to questions by Dr. L. SAUNDERS, London, Dr. BECKETT, who had read the paper, said the analytical method was ultra-violet absorption.

MR. A. R. ROGERS, Brighton, asked how quickly "footprints" were lost in water, and was told that surface "footprints" were readily removed in water but those beneath the surface might repay investigation by infra-red absorption methods.

MR. G. R. WILKINSON, Potters Bar, asked if aluminium gels had been considered; they were basic in contrast to the acidic silica gels. Had dextran been tried?—The reply was that aluminium gels had been considered, but the authors favoured the method that had so far been successful.

DR. BECKETT told MR. H. E. BROOKS that so far he had not combined the technique with other methods; and Dr. E. S. STERN, Edinburgh, that the work had been confined to the quinine group, which demonstrated a strong configuration with a good uptake. Mr. R. H. SUTARIA, Bombay, was told that molecular space configuration did not correlate with crystal lattice structure.

DR. D. TRAIN, London, suggested that the paper might have been better entitled "Footprints in Adsorbent Silica

Gel."

Pressing of Regular Arrangements of Spheres

D. TRAIN and J. N. CARRINGTON

REGULAR arrangements of annealed phosphor bronze spheres have been used to investigate the lubricating effect of graphite films located in various parts of the system being compressed in a cylindrical die. The relative importance of interparticulate lubrication and of die wall lubrication are discussed. The influence of the "angle of packing "on the pressing behaviour has been investigated using similar arrangements of spheres but varying the diameter of the upper layer. From consideration of these experiments, it would appear that die wall friction calculations for powders should include a factor for particle deformation and interparticulate frictional effects.

(Department of Pharmaceutics, School of Pharmacy, University of London)

Discussion

To MR. N. J. VAN ABBE, who asked whether the authors had tried any other materials, Dr. J. N. Carrington said that graphite had been chosen because it was readily deposited from an active suspension and had been found to have a constant coefficient of friction.

DR. D. TRAIN told Mr. C. R. Wilkinson, Potters Bar, that low rates of piston travel had been used in order to find "what was happening." A recent D.S.I.R. grant had provided a dynamic recorder that should enable them to follow the sequence quickly and they hoped to be able to investigate the effects entailed when operating a singlepunch tablet machine at normal speeds.

DR. CARRINGTON told Dr. J. H. Oak-ley, High Wycombe, that the paper was the result of about 200 experiments and so far the authors could not give any real information about the effect

of forces on the wear of punches.

DR. TRAIN added that a paper to be published by Dr. Strickland would list tableting materials and their lubricating properties. In tableting there were two types of phenomena—the breakaway from the die wall—a "sheer" force; and the breakaway from the punch surfaces—a "tension" force. The effect of both those forces should be ascertained on the tableting materials. In a future paper the authors hoped to publish results of investigations that they had carried out with talcum at varying pressures.

The Characterisation of Crystalline and Amorphous Aloin

R. E. LISTER and R. R. A. PRIDE
TESTS are described showing the differences between amorphous aloin not conforming to the description in the British Pharmacopœia, 1953, but which has appeared in commerce. One of the tests might, with advantage, be incorporated in official publications to differentiate crystalline aloin from the relatively impure and less active amorphous aloin.

(From the Research Department, J. F. Macfarlan & Co., Ltd.)

Discussion

DR. K. R. CAPPER, London, said he had been able to confirm the statements in the paper, and that if they were generally confirmed the official monographs would require amendment.

Dr. T. E. WALLIS, London, referred to previously published work upon the biological effects of aloes. In microscopic tests the amorphous aloin was readily dissolved. That might prove a useful preliminary test.

DR. E. S. STÉRN, Edinburgh, said that his own tests suggested that the amorphous substance might be isobarbaloin. A spectroscopic test would differentiate between isobarbaloin and barbaloin.

Mr. C. A. JOHNSON, Nottingham, was told that a calcium precipitation method is used in the determination of aloin from aloes.

Some Toxic Nectars

F. MACL. CAREY, J. J. LEWIS, J. L. MACGREGOR and M. MARTIN-SMITH

ACETYLANDROMEDOL (andromedotoxin) has been isolated from the nectar of Rhododendron thomsonii. The pharmacological properties of toxic nectars obtained from several Rhododendron sp. and hybrids have been investigated. They show properties which indicate that the poisonous principle is acetylandromedol. This investigation has shown that some rhododendron nectars are toxic to bees, mice and cats. R. thomsonii and some of its hybrids are especially poisonous. R. aboreum var. album and R. pratti are also toxic. It is not, however, possible to predict that a particular rhododendron will secrete a toxic nectar.

(From the Department of Materia Medica and Therapeutics, University of Glasgow and West of Scotland Agricultural College)

Discussion

THE CHAIRMAN asked if the species of *Rhododendron* always produced the poisonous nectar, or was it merely the result of an "aberration"?

THE CO-AUTHOR stated that the poisonous nectars had been collected in

the Isle of Colonsay for three consecutive years.

MR. H. DEAN asked if other strains of bees had been used in the tests.

MISS CAREY stated they were attempting to obtain a strain of Caucasian bees to ascertain their sensitivity to the nectars.

DR. DARE, who pointed out that varieties of *Rh.ponticum* comprised 75 per cent. of the Rhododendron varieies in Northern England, and asked whether the authors had looked at that variety, was told that the authors had been unable to collect nectar in quantity from that species. They had collected nectar from thirty species and looked at another forty.

DR. W. MITCHELL said that the effects of the poisonous nectars on the bees described in the paper were similar to those caused by pyrethrums.

MR, J. J. LEWIS affirmed that during the experiments precautions had been taken to exclude possible complications from insecticides.

Indole Derivatives in Tomatoes

G. B. WEST

During systematic examination of edible fruits, the banana and the tomato, have been found to contain indole derivatives. Bananas contained much 5-hydroxytryptamine (5-HT), but the predominant indole derivative in the tomato was shown to be tryptamine. The paper describes initial work carried out to trace the formation and assess the importance of the indole compounds in the life history of the tomato plant.

The high concentration of tryptamine hydrochloride (T), an indole compound, in the fruit of the tomato, and especially in the pips of the ripe specimens examined, suggests that it may play a role in metabolism such as regulating or stimulating new growth. However, no T has so far been detected in extracts of the young plant so it is probable that one of the other indole compounds performs that function at that stage of growth. On the other hand, T may be a precursor of 5-HT which itself may be the important stimulator of growth in the tomato. (From the Department of Pharmacol-

ogy, School of Pharmacy, University of London)

Discussion

DR. G. F. SOMERS, Liverpool, asked if leaf and stem hairs contained 5 HT, and was told there was no 5 HT in them. The reply to MR. J. J. LEWIS, Glasgow, who wondered if plant amines were widely distributed in nature, was that tests with tryptophan in young plants showed no direct effect. It was possible that larger molecules were unable to gain entry to the plant.

Tinned Italian tomato juice in the same tests showed no 5 HT; tomato soup had tryptamine only; and tomato ketchup was free of indolc substances.

MR. G. R. WILKINSON, Potters Bar, who referred to a current belief that over-ripe tomatoes could cause gastric distress, was told that assays had shown no apparent modification in the indole content of over-ripe tomatoes.

DR. BECKETT, London, asked if amines had a particular rôle in assisting the diffusion of plant substances. He also queried the influence of light and darkness upon the amine content of plants and was told by DR. WEST that some of the authors' work showed that only 5-hydroxy tryptamine had diffusion effects.

DR. G. E. FOSTER, Dartford, was thanked for suggesting experiments using tomato grafted on belladonna.

Storage and Testing of Catgut

G. R. WILKINSON, E. L. ROBINS, J. J. GRIMSHAW and S. P. A. HUDSON

RESULTS obtained during an examination of plain and chromicised surgical catgut stored in tubing fluids of differing water content, and the effect on diameter, tensile strength and flexibility are described. A fall in tensile strength and an increase in diameter with water content and time of storage was observed although gut does not deteriorate rapidly when immersed in water and several days elapse before significant changes occur. The official testing methods have been examined and the results indicate that the surgeon's knot test gives a more reliable measurement of tensile strength



CONFERENCE EXCURSIONISTS: A group on the roof of the tower of Sherborne Abbey, photographed by Mr. E. J. Wright, March.

than the straight pull. Also the present gauge method for measurement of diameter can lead to errors due to compression of the gut. The time of equilibration of the gut in air is important for the measurement of both tensile strength and diameter, particularly when tubing fluids contain a high water content. A relation has been shown between tensile strength, extensibility and softening, and it is suggested that it might provide an index of flexibility of the gut. The effect of some common disinfectant solutions on the gut has been investigated.

(From the Research Division, Allen & Hanburys, Ltd.)

Discussion

Giving answers to a number of questions by Mr. J. O. Dawson about the measurements taken, Mr. WILKINSON said that optical systems of measuring were used and no tension was applied to the gut. A ruled graticule was employed and the results cross-checked using independently measured wires. Measurements of the diameters were taken at various points of the circumference. So far as possible the B.P. tests had been carried out at the same place. No attempt had been made to control humidity or temperature, which tests had proved were not significant. For extensibility the B.P. system was used.

Pharmacology of Œstrogens

KULCSAR-JUDITH GERGELY and ANDREW KULCSAR.

THE liver has always been regarded as the main site of estrogen inactivation. In tests to investigate the process, the authors had induced liver lesion with eighty-nine carbon-tetrachloride in female rats and compared their cestrus cycle with that of untreated rats. In the treated rats the cycle decreased by 2.08 days, with estrus and diestrus left intact. To test the inactivation of left intact. follicular hormone, which in sexually mature animals lengthens the œstrus cycle, in the affected liver, animals with liver lesion, and controls, were given increasing æstrogen doses. Results showed longer æstrus in the affected group. The authors consider the rise of endogenous æstrogen level in liver lesion to be confirmed, and suggest that any influence decreasing æstrogen inactivation in the liver may at the same time increase liver lesion. **Estrogen** therapy, they conclude may be contraindicated where there is liver damage.

Discussion

DR. G. F. SOMERS, Liverpool, congratulated Dr. Kulcsar-Judith Gergely upon her command of the English language. He went on to ask if the author was aware of species differences in their reaction to the æstrogens. The AUTHOR thought that histological and biochemical differences between species might promote differences of reaction.

To MR. J. C. HANBURY, Ware, who

asked whether estrogen imbalance was related to or associated with liver dysfunction, she pointed out that she was not a clinician, but was aware of cases with hormone imbalance recovering after hepatic therapy. To Dr. W. A. M. Duncan, Alderley Park, she said that

annular cirrhosis resulted from the use of carbon tetrachloride; it might develop to complete cirrhosis. She had not used any other hepatoxic agents. DR. GERGELY agreed with DR. T. D. WHITTET, London, that endogenous estrogen appeared to provide an immunity to the effects of administered estrogen.

Absorption and Distribution of Halothane

W. A. M. DUNCAN

THE paper describes a study of the kinetics of anæsthesia from halothane (Fluothane), 1:1:1-trifluoro-2-chloro-2bromoethane and the distribution of the agent in the tissues. The method was to expose the mice or rats, for varying lengths of time to the anæsthetic, after which the animal was killed and the halothane content of the whole mouse or the separate tissues of the rat determined. In a similar way the concentration of halothane in the whole animal, or in the tissues, at different times after the cessation of inhalation of the agent, was examined. It was found that, in the mouse, halothane was rapidly absorbed during the first ten minutes of inhalation of the anæsthetic; after ten minutes, a 20-gm. mouse contained about 6 mgm. of halothane. As the duration of anæsthesia increased the absorption of the agent continued more slowly, so that after 180 minutes' anæsthesia, a 20-gm. mouse contained about 35 mgm of halothane. On recovery from anæsthesia with halothane, which had been administered for two hours, it was found that the total amount of anæsthetic in the animal decreased rapidly; the half-clearance time was about thirty minutes. In the rat, the rates of absorption of halothane by the arterial blood, the brain, the liver and the perirenal fat were examined and several unexpected facts observed. All the tissues showed an initial rapid absorption. The perirenal fat was found to have the greatest affinity for the agent, yet even after six hours, at which time the fat contained about 1 per cent. by weight of halothane, there was no indication of saturation of that tissue with the agent. The liver and brain gave identical results. The slow increase in the concentration of halothane in the brain contributes to the small influence which the duration of anæsthesia has on the time taken to rccover after anæsthesia. The arterial blood was observed to reach a state of equilibrium with the inhaled gas concentration in about ninety minutes. That is different from what has been observed with ether and chloroform. The correlation of the calculated and experimentally determined half-clear-



EN ROUTE FOR SHAFTESBURY: Some of the passengers on one of the coaches on the "Hardy country" excursion, photographed by Mr. E. J. Wright, March, Cambs.

ance times of halothane indicate that it is not extensively metabolised.

(From Imperial Chemical Industries, Ltd., pharmaceuticals division)

Discussion

Dr. Saunders asked if the author had looked for fluoro forms in the metabolic products. "No," was the answer.

An Indicator Control Device for Ethylene Oxide Sterilisation

A. ROYCE and C. BOWLER
THE use of physical sterilisation controls instead of bacteriological controls for heat sterilisation processes is cited. Due to sorption of the gas and penetrability difficulties added need for such controls exists in ethylene oxide sterilisations. Some data on sorption of ethylene oxide is presented. The construction of a simple disposable device, to indicate the attainment of lethal conditions in ethylene oxide sterilisations is described. Data is presented to compare the control device with bacteriological controls, under different conditions of time, temperature, and gas concentration.

(From the microbiology division, Standards Department, Boots Pure Drug Co., Ltd.)

Discussion

MR. R. H. SUTARIA, Bombay, was given details of apparatus for use in gas-pressure sterilisation, and information about the means of gas recovery. In Britain normal pressure might be used in ordinary autoclaves. After use the gas could be absorbed in a saturated solution of magnesium chloride and hydrochloric acid.

MR. G. RAINE, London, considered a visual indicator of value in sterilisation but wondered if all polythene film would have the same permeability. MR. ROLFE did not claim that the permeability of the material was completely consistent but said the differences could

be suitably allowed for.

DR. A. M. Cook, London, asked what amount of moisture must be present for the indicator to function. He also asked about the spore-suspension test organism's relative resistance to the gas. MR. ROLFE said that the authors' experience was that 50–100 per cent. relative humidity had little effect. No organism specially resistant to ethylene oxide had been found, though mechanical protections could prevent access to the organism.

WORLD TRADE

Atlantic Freight Rate. — Shipping lines belonging to the Continental-North Atlantic westbound freight conference are to raise their freight charges by an average of 10 per cent. from December 1.

British Firm May Manufacture in Denmark. — Imperial Chemical Industries, Ltd., are reported by the Danish Press to be negotiating the construction of a factory at Kalundborg for the preparation of medicinal products. It is understood that some of the raw materials would be obtained from petroleum by-products from a proposed new oil refinery at Kalundborg to be built by a United States company.









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How children love to hoist themselves on to the chemist's weighing machine, put in a penny, watch the wheels revolve and the pointer give the correct weight! .

Now, with the Cytacon Height Strip, latest idea in sales boosters, they can have their height recorded too, and it doesn't cost mother even a penny! Send for a height strip now! Use it whenever you can, to remind your customers that Cytacon is a tonic that can help to increase both weight and height. Then see how your young customers and your sales grow.

When writing, ask for:

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 21: With little demand in the CRUDE DRUGS market, apart from small replacement buying, price movements during the week-were few.

The dry summer, which has been good for some crops, has caused casualties in others. From Holland it is reported that the LOBELIA crop is expected to be only one-fifth of the size planned. DIGITALIS (purpurea) has also been affected, and there is little carry-forward from the old crop. While JALAP is cleared on the spot, shipment quotations for Vera Cruz (15 per cent.) have been around 4s. 9d. per lb., c.i.f. There were no firm offers during the week for Cape ALOES in the forward position. ERGOT was a shade firmer at origin. Among AROMATIC SEEDS, Dutch CARAWAY showed another big rise on the spot. The market for PEPPER was more active because of Continental buying in afloat and near-shipment positions. Shipments of Tinnevelly SENNA from the port of Tuticorin during September were as follows:—

	U.K.	U.S.	EUROPE
SENNA	Tons	Tons	Tons
LEAVES	9	68	143
PODS	19	_	120

Easier among Essential Oils were LAVENDER, LAVANDIN and Spanish SAGE.

The firmness of zinc was reflected in another 30s. per ton rise in the price of ZINC OXIDE on October 19. Competition from imported material has forced domestic CITRIC ACID prices lower.

Pharmaceutical Chemicals

AMIDOPYRIN.—Minimum rate is 20s. 1d. per lb. with usual differentials for smalls.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	28 lb. to 1 cwt.	1 cwt.	5 cwt.		
	 s. d. 22 3	s. d. 21 9	s. d. 21 4		
	 21 9	21 4	20 10		
SUBGALLATE	 21 1	20 8	20 2		
SUBNITRATE	 20 5	20 0	I9 6		

The 1-cwt. rates (per lb.) for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystals, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d.; SODIUM TARTRATE, 35s. 6d.; and TRIBROMPHENATE, B.P.C., 26s. 9d.

CAFFEINE.—ANHYDROUS, less than 50-kilo lots, 35s. per kilo; MONOHYDRATE, B.P., 34s.; CITRATE, 26s. kilo.

Chiniophon.—B.P. 1948 is 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953) is 99s. 4d. and 92s. 9d, for the same quantities.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 7s. 2d. per lb. for 1-cwt. lots.

CHLOROXYLENOL.—B.P. quality is 5s. 3d. per lb. for 1-cwt. lots and 5s. 1d. for 10-cwt.

CITRIC ACID.—Domestic material in kegs is 198s, per cwt. for 1—4-cwt. lots and 195s. for 5-cwt. lots. In paper bags 5-cwt. lots are 188s. 6d.

ERGOMETRINE,—For 20-gm. lots the price of the MALEATE, B.P., is £17 10s. per gm. and the TARTRATE, £16 5s. per gm.

ERGOTOXINE ETHANESULPHONATE. — Price per gm. for B.P.C. (1949) is: 1 gm., 168s. 9d.; 10 gm., 155s. 3d.

FORMALDEHYDE. — B.P. solution in 1-4-drum lots is £39 15s. per ton; 5-drum lots are £38 15s. per ton.

are £38 15s. per ton.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 3d. per lb, in 1-cwt. lots; SULPHATE, B.P. crystals are 9½d. per lb. in 28-lb. lots; 1-cwt. is 57s. 6d. per cwt. and 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. Phosphate, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. Phosphate, Saccharated, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt., 3s. 6d. Oxide, RED PRECIPITATED, B.P.C., 1949, 1-cwt. 2s. 1d. per lb.; Carbonate, Saccharated, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. Ammonium ctirate, scales, 6s. 6d. per lb.; granular, 5s. 9d. Ammonium Sulphate, 2s. 1d. per oz. in 100-oz. tin.

Magnesium carbonate.—Minimum bulk rate for light is 121s, per cwt.; heavy is 160s. per cwt. for 1-cwt. lots and about 130s. per cwt. for 1-ton lots.

Magnesium sulphate.—Quotations for B.P. in minimum 1-ton lots vary between £18 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works.

Magnesium trisilicate.—In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. $9\frac{1}{2}d$.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

PHENOL.—Basic price for ice crystals in drums is 1s. 4½d. per lb. (under 1-ton lots, 1s. 7½d.). Detached crystals, 2d. per lb. above and Liquid, B.P., ¼d. per lb. below the foregoing prices.

POTASSIUM PERMANGANATE. — Current rate for B.P. material for 1-cwt. lots is 1s. 11\frac{1}{4}d. per lb. Technical is 209s. per cwt. and £198 per ton.

POTASSIUM THIOCYANATE.—One-cwt. lots are 5s. 6d. per lb.

SODIUM ACETATE.—B.P.C. in 28-lb. lots is 2s. 4d. per lb.; 1-cwt., 2s., and 5-cwt., 1s. 11d.

SODIUM BROMATE. — 1-cwt. lots are quoted at 9s. 9d. per lb.

SODIUM CARBONATE. — B.P.C. exsiccated is 70s. per cwt.; 5-cwt., 65s. per cwt.

SODIUM CHLORIDE, — Re-crystallised is 25s, per cwt, and B.P.C., 42s.

SODIUM METABISULPHITE. — Granular in 1-ton lots is from £48 12s, 6d. to £53 17s. 6d. per ton according to packing.

SODIUM PERBORATE. — Prices (per ton) are £145 15s. in 1-cwt. kegs; £138 5s. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is £309 15s. and TETRAHYDRATE, from £131 15s. to £139 5s. per ton as to packing.

SODIUM PERCARBONATE.—Price (per cwt.) is 170s. 9d. (bags, 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

Sodium Phosphate. — B.P.C. powder is 2s. 3d. per lb.

SODIUM SALICYLATE.—Rates are now:—1-ton lots in bulk, 3s. 7d. per lb.; 5-cwt. 3s, 8d.; 1-cwt. 3s. 10d.

SODIUM SULPHATE.—Makers' prices for B.P. range from £12 10s. to £19 17s. 6d. per ton as to crystal and quantity, exworks.

SODIUM SULPHITE. — 1-ton lots on the spot of ANHYDROUS (48–50 per cent.) are £71 10s. per ton in 1-cwt. drums or £67 5s., in 1-cwt bags. CRYSTALS, B.P.C., are £32 15s. per ton in 1-cwt, paper-lined bags. Commercial crystals are from £27 to £28 15s. as to packing.

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots of photographic grade in paper-lined bags is £38 per ton.

SULPHUR.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

Theophylline.—50-kilo lots: Alkaloid anhydrous, 34s. 6d. per kilo and B.P. 33s. 3d.; aminophylline, 33s. per kilo.

ZINC OXIDE. — Dearer. B.P. quality is now: In 2-ton lots £115 10s. per ton; 1 ton, £116 10s. per ton; 10 cwt., £118 10s.

Alcohol

British Spirit per proof gall.:—
Ethyl Alcohol: (95 per cent. Gay
Lussac, 66 o.p.); where the number of
proof gall. taken over any one year ended
March 31 is 300,000 or over 4s. 0\frac{1}{4}d.;
200,000 and less than 300,000, 4s. 0\frac{1}{4}d.;
100,000 and less than 200,000, 4s. 1\frac{1}{4}d.;
50,000 and less than 100,000, 4s. 1\frac{1}{4}d.;
2,500 and less than 50,000, 4s. 2\frac{1}{4}d.;
2,500 and less than 50,000, 4s. 2\frac{1}{4}d.;
2,500 and less than 10,000, 4s. 2\frac{1}{4}d.;
2,500 and less than 10,000, 4s. 2\frac{1}{4}d.;
2,500 and less than 10,000, 4s. 2\frac{1}{4}d.;
2,500 and less than 50,000 and l

Absolute Alcohol, 95·5 per cent., 74·5 o.p., 3d. more per proof gall., the special high strength (99·9 per cent., 75·2 o.p.), 5d. more. Doubly Rectified Alcohol (S.V.R.) 95·8 per cent., 68 o.p., is 3d. more and P.I. Rectified Alcohol, 96·1 per cent., 68·5 o.p., 8d. more. R. R. Absolute Alcohol (re-rectified, 99·7 per cent., 75 o.p.), 14s. 10d. per bulk gall. net.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:—

Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall and over, 5s. 11d.; 100 gall. and under 500 gall., 6s. 2d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 3d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 8½d., 6s. 11½d., 7s. 2½d., 7s. 7½d. and 8s. 0¾d. per gall. for similar quantities. Tank wagon delivery is 1½d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 2½d. (tank wagon) for 500 gall. to 8s. 8d. for 5-10 gall. in drums) for 61 o.p.

Pyridinised industrial methylated spirit:

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 6s. 2d.; 100 gall. and under 500 gall. (in drums), 6s. 6½d.; 40 gall. and under 100 gall., 6s. 9½d.; 10 gall. and under 40 gall., 7s. 2½d.; 5 gall. and under 10 gall., 7s. 7½d.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 6½d.; 40 gall and under 100 gall., 6s. 9½d.; 10 gall. and under 40 gall., 7s. 2½d.; 5 gall and under 10 gall., 7s. 7½d.

Methylated resin finish is 3d. per gall. over and methylated shellac finish is 1s. per gall. over the prices of pyridinised methylated spirit.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are 2s. 6d. per lb.

AGAR.—Kobe No. 1 is 12s. per lb., in bond, and for shipment, 11s. 9d., c.i.f.

ALOES. — Cape primes, spot, 200s. per cwt. quoted; shipment nominally 177s. 6d., c.i.f. Curação, 500s., spot.

BALSAMS. — Quotations per lb. are:— CANADA: Spot, 22s. COPAIBA: Para from 7s. 6d. duty paid. PERU: Spot, 10s. in bond. TOLU (genuine as imported): spot cleared and B.P., 14s. 3d.

BELLADONNA. — Herb is 8s. 3d. per lb. on the spot. Root is 1s. 6d. spot; shipment; 1s. 3d., c.i.f.

BENZOIN.—Sumatra block on the spot is £22 to £28 as to quality.

BUCHU.—Spot rounds are 4s. to 4s. 3d. per lb. and new-crop for shipment, 4s., c.i.f.

Calabar Beans.—Spot offering at 1s. $7\frac{1}{2}d$. per lb.

CALAMUS.—Root is quoted at 1s. 2d. per 1b., c.i.f.

CALUMBA.—Root is 105s. per cwt., spot. CAMPHOR.—B.P. powder is 3s. $7\frac{1}{2}$ d. per lb in bond

Capsicums. — East African are from 140s. to 175s. per cwt. on the spot.

CARDAMOMS. — Aleppy greens, spot, 14s. per lb.; prompt shipment, 13s. 9d., c.i.f. Seeds, shipment, 20s., c.i.f.

Cascara. — Shipment, 275s. per cwt., c.i.f.; spot 295s.

CHERRY BARK.—Thin natural is 1s. $5\frac{1}{2}d$. per lb., and rossed is 1s. 11d.

CINCHONA.—Druggists' bark, Portuguese West African succirubra, testing over 9 per cent. t.a., 1s. 5d. per lb., ex store.

CINNAMON.—Ceylon for October (c.i.f.) per lb.; OOOO, 6s. $11\frac{1}{4}d$.; OOO, 6s. $3\frac{1}{4}d$.; econds, 4s. $3\frac{1}{4}d$.; featherings, 1s. $11\frac{1}{4}d$.; quillings, 3s. $8\frac{1}{4}d$.; chips, 1s. $3\frac{1}{4}d$.

CLOVES. — Zanzibar on the spot are 2s. $10\frac{1}{2}$ d. per lb.; shipment, 2s. $6\frac{1}{2}$ d., c.i.f.

COCHINEAL.—Peruvian, 4s. 6d. per lb.; Canary Isles grey-black, 11s. and black-brilliant, 12s.

COCILLANA.—Bark is 2s. per lb. on the spot.

COLOCYNTH PULP.—Spot, 2s. 6d. per lb. ELEMI. — Spot from 1s. 10½d. per lb. shipment, 1s. 7d., c.i.f.

Ergot. — Portuguese, 6s. 6d. per lb.; East European not offering.

Frangula.—Spot is 105s. per cwt.

GENTIAN. — Spot: French, 160s. per cwt.; Jugo-Slavian, 152s. 6d.

GINGER.—African, 130s. per cwt. spot. Jamaican No. 3, spot, 187s. 6d. and shipment, 182s. 6d., c.i.f. Cochin spot quoted 135s.; shipment, 137s. 6d., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts are 197s. 6d. per cwt. on the spot; November-December shipment, 192s., c.i.f.

HENNA.—Indian on the spot is now 95s. per cwt., ex wharf.

HONEY. — Australian light amber is 102s. 6d. to 105s. and medium amber 95s. to 97s. 6d. Argentine, 98s. 6d. to 102s. 6d.; Jamaican, 115s. to 120s.; New Zealand clover 170s., nominal; Canadian clover, 155s., all per cwt. on the spot ex warehouse.

1PECACUANHA.—Shipment (c.i.f.) Nicaraguan, 68s. 6d. per lb. Colombian November-December, 54s.; spot, 54s.

JALAP.—Spot cleared; shipment, 4s. 9d. per lb., c.i.f. Vera Cruz, 15 per cent. basis.

Karaya. — No. 1 gum on the spot is quoted at 260s. per cwt. nominal, No. 2 at 230s., nominal.

KOLA NUTS. — Jamaican for shipment,

7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LANOLIN. — ANHYDROUS, B.P. is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LIQUORICE. — Natural root: Persian on the spot is 50s.; Anatolian, 60s. and Russian, 66s. per cwt. Block juice: Anatolian and Chinese, 190s. per cwt.; Italian stick from 310s. to 476s. per cwt.

LOBELIA HERB.—American for shipment is 3s. 9d. per lb., c.i.f. Dutch scarce; shipment nominally, 3s. 6d., c.i.f.

PEPPER. — White Sarawak spot, 3s. 3½d. per lb.; October-November shipment is 3s. 3½d., c.i.f. Black Sarawak on spot is 2s. 2d. per lb. with shipment 2s. 1¾d. per lb. Black Malabar, 270s. per cwt. spot and 257s. 6d., c.i.f.

Peppermint leaves.—Dutch, 2s. 2d. to 2s. 10d. per lb., c.i.f.

Pimento.—Spot value is 550s. to 560s. per cwt.

Podophyllum.—*Emodi* is 200s. per cwt., spot, and 195s., c.i.f.

RHUBARB. — Chinese small rounds 6s. $4\frac{1}{2}$ d. to 6s. 9d. on the spot.

SAFFRON. — Spanish is quoted at 160s. per lb.

SARSAPARILLA — Jamaican native red on

SARSAPARILLA.—Jamaican native red on the spot is 2s. 6d. per lb. Shipment, 2s, 2d., c.i.f.

SEEDS.— (Per cwt.). ANISE.— Spanish, 160s.; Turkish, 130s.; both spot, duty paid. Caraway.— Dutch have shown another big increase, 135s. to 137s. 6d. now quoted, duty paid. Celery.—Indian, quiet at 150s., spot; for October shipment the price is a little easier at 115s., c.i.f. CORIANDER.— Moroccan offering at 45s., duty paid; shipment, 34s., c.i.f. CUMIN.—Iranian offered at 270s., duty paid (250s. in bond). Indian now landing 260s., spot terms. DILL.—Indian is dearer on spot at 85s.; forward shipment, 75s., c.i.f., quoted. FENUGREEK.—Moroccan on spot is in short supply with 47s. 6d., quoted, duty paid. MUSTARD.—English, 75s. to 85s. according to quality with a fair business passing.

SENNA. — Tinnevelly LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q..; No. 3, 10d. Pods: Manufacturing (f.a.q.), 1s. 1d. and hand-picked, 1s. 9d. to 2s. 2d. Alexandria pods: Manufacturing, offered from 1s. 6d. with hand-picked from 4s. to 6s, 6d.

Shellac.—F.O.T.N., 197s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

STRAMONIUM. — Indian LEAVES 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid, 92s., c.i.f.

STYRAX.—Very short on spot with 31s. per 1b. asked; shipment 31s., c.i.f., nominal.

TONQUIN BEANS.—Para on the spot are offered at 8s. 3d. per lb. Angostura, 11s.

TRAGACANTH. — No. 1 ribbon is £115 per cwt. No. 2, £105.

TURMERIC. — Madras finger on spot is 110s. per cwt. for old crop; current crop, October-November shipment, 93s. to 99s., c.i.f.

Valerian Root. — Spot: Indian (with rootlets) is 130s. and Belgian, 175s. to 195s. per cwt. Dutch whole (max. 2½ per cent. sand) for prompt shipment, 159s., c.i.f.

Vanillin. — Rates (per lb.) are now:— 5-cwt. lots, 23s. 3d.; 1 cwt. 23s. 6d.; 56-lb., 23s. 9d.; smaller quantities, 24s.

Waxes. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 480s.; shipment, 465s., c.i.f. Abyssinian, spot 410s. in bond; shipment, 404s., c.i.f. Benguela, shipment, 405s., c.i.f. Candelilla.—Spot 445s. Carnauba.—Fatty grey spot, 600s.; for shipment, 580s., c.i.f. Prime yellow, spot, 960s.; shipment, 905s., c.i.f.

Essential and Expressed Oils

ALMOND. — Moroccan, 6s. 6d. per lb., duty paid.

AMBER.—Rectified on the spot is 1s. 6d. per lb.

ANISE.—Chinese, 8s. per 1b., spot; shipment, 7s. 11d., c.i.f.

BAY.—West Indian is 12s. 6d. per lb. on the spot.

BERGAMOT.—Spot supplies are from 85s. per lb.

Bois DE ROSE.—Brazilian is 14s. 9d. per lb. on the spot and 14s. 6d., c.i.f.

CADE. — Spanish is 3s. 6d. per lb. for

drum lots.

CAJUPUT. — Spot supplies are from

CAJUPUT. — Spot supplies are from 11s. 6d. per lb.

CALAMUS.—Spot quotations are 62s. 6d. lb.

CAMPHOR, WHITE. — Chinese is 1s. 9d. per lb. in bond.

Cananga. — Spot is from 42s. 6d. to 45s. per lb.

Cassia.—Spot is 13s. 9d. per lb.; shipment, 13s. 5d., c.i.f.

CASTOR.—Home-produced B.P. oil on the spot, £138 per ton naked ex mill (2-ton lots).

CITRONELLA. — Ceylon, spot 5s. 6d.: shipment, 5s. per 1b., c.i.f. Formosan, spot 5s. 3d. in bond, shipment, 5s. 1d., c.i.f.

EUCALYPTUS. — Australian 70 to 75 per cent, eucalyptol on the spot is 4s. 6d. per lb, 80–85 per cent., 5s. 3d. Spanish (70–75), 4s. spot. Chinese 3s. to 3s. 6d., duty paid.

LAVANDIN.—Spot is from 6s. to 9s. per lb. for original drums.

LAVENDER.—From 24s, to 37s, 6d. per lb. as to quality.

Pennyroyal.—Spot is quoted from 15s, per lb., duty paid.

PEPPERMINT.—Arvensis: Chinese is 27s. per lb., spot nominal: October shipment nominally 24s., c.i.f. Brazilian 10s. 9d. to 11s. 3d. both spot and shipment. Piperita: Italian "Mitcham-type" from 42s. 6d. to 48s. 6d.; American, 22s. 6d. to 28s., as to origin.

PETITGRAIN.—Paraguay 18s. 6d. per lb., spot; shipment, 17s. 9d., c.i.f.

PIMENTO. — English-distilled berry is 167s. 6d. per lb.; imported; 77s. 6d. Rectified leaf 27s. 6d. per lb. for small lots.

ROSEMARY.—Spanish is 7s. 3d. per lb. on the spot for best quality.

RUE.—Spanish is 25s. per lb. spot,

SAGE.—Spanish is 9s. per lb.

Sassafras.—Brazilian is from 3s. 6d. per lb. duty paid.

TANGERINE.—Hand-pressed is 55s. per lb. and machine-pressed, 42s. 6d.; others, 26s. to 28s. on the spot.

UNITED STATES REPORT

NEW YORK, OCTOBER 20: Among FINE CHEMICALS, THEOBROMINE was advanced ten cents to \$3.50 per lb., while imported Ascorbic acid was raised 25 cents to \$7.50 per kilo. Cortisone and Hydrocortisone were both reported available at \$1.15 per gm. or 15 cents lower than previously. Japanese Menthol was quoted on a c and f basis of \$6.65 per lb., up 60 cents, while Brazilian was five cents higher at \$6.25. Higher per lb. among Crude Drugs were Copaiba balsam at 52 cents, up seven cents; and Tamarinds at 25 cents, up five cents. Lower per lb. was Lycopodium at \$3.50, down 25 cents. Lemongrass oil at \$1.40 per lb., was up ten cents and Bay oil at \$2.35, up ten cents.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," September 30

or suppositories (5) TRICOCIDE, 785,632, by Riker Laboratories,

Ltd., Loughborough, Leics. or material for stopping teeth (5)

DIAFIL, 788,219, by Pfingst & Co., Inc., New York, U.S.A.

or medicated preparations for babies (5)

BABYDARM, 786,473, by Mijnhardt Pharmaceutische & Chemische Fabrieken N.V., Zeist, Holland.

or organotherapeutic pharmaceutical preparaons (5)

OSSOPAN, 786,552, by Robapharm A.G., Basle, Switzerland,

or wetting and soaking solutions, being medited preparations for use with contact lenses (5) SOQUETTE, 787,077, by Barnes-Hind Laboratories, Inc., Sunnyvale, California, U.S.A.

or disinfectants (5)

O-TAA, 788,343, by R. G. Holdham and Elsie I. Holdham, Coventry, Warwicks. VANODINE, 790,621, by W. C. Evans & Co. (Eccles), Ltd., Eccles, Manchester.

or pharmaceutical preparations in the nature of hampoos, being goods manufactured and for sale the United Kingdom and for export to the epublic of Ireland and the Channel Islands

Device with words VASELINE BRAND MEDICATED SHAMPOO, 788,776, by Chesebrough-Pond's, Ltd., London, N.W.10. or pharmaceutical preparations in the nature of

hampoos, for export except to the Republic of reland and the Channel Islands (5)

Device with words VASELINE BRAND MEDI-CATED SHAMPOO, 788,778, by Chescbrough-Pond's, Inc., New York, U.S.A.

or pharmaceutical preparations (5) PENEMINTAL, 789,091, by W. Spitzner Arzneimittelfabrik G.m.b.H., Sitz Ettlingen/ Baden, Germany,

or sanitary towels, sanitary tampons, and sani-

ary clothing (5) KLINTOWS, 789,552, by Robert Whitelaw

(Newcastle), Ltd., Newcastle-on-Tyne, 2. For pharmaceutical, veterinary and sanitary subances: and disinfectants (5)

SKIPIT, 789,785, by Airkem, Ltd., London,

or pharmaceutical preparations in tablet form for uman use in the relief of catarrh, sinus infections

nd the like complaints (5) MUCRON, 789,855, by International Laboratories, Ltd., Chessington, Surrey.

or pharmaceutical preparations for human use

HURBON, 790,215, by Laboratoires J. Berthier, Grenoble, France,

or all goods for sale in the United Kingdom (5) COCCIVAC, 790,654, by Bayer Products, Ltd., Kingston-on-Thames, Surrey.

or pharmaceutical preparations and substances. ill for sale in the United Kingdom (5)

KANNASYN, KANNAXAN, 791,379-80, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

or optical, photographic, sound recording and ound reproducing instruments and apparatus; ptical projection apparatus and projection creens, etc. (9)

MOVIPAN, B784,423, by Zeiss Ikon A.G., Stuttgart S, Germany.

or optical and photographic instruments and pparatus; lenses, magnifying glasses; and view nders for canieras, range finders, photographic enlarging apparatus, filters (orthochromatic) for chotography and photographic exposure tables (9) COMPARON, 788,451, by Jos. Schneider & Co., Kreuznach/Rhineland, Germany.

or toilet paper (not medicated) (16) STENZONE, 789,678, by James Grundy & Sons, Ltd., Cheshunt, Herts.

From the "Trade Marks Journal," October 7

For seed dressings (1)

ASTEX, 790,024, by Shell Petroleum Co., Ltd., London, E.C.3.

or chemical products used in agriculture, hortiulture and forestry (1)

PROBOTOX, PROBOCID, 790,075-76, by British Schering, Ltd., London, W.8.

For tertilisers and chemical products for use in agriculture, horticulture and forestry (1)

BINSTAN, 790,657, by Binstan Products, Leeds, For perfumes, toilet-waters, eau-de-Cologne and

CHRISTIAN DIOR, 762,602, by Parfums Christian Dior, Paris, France.

For perfumes, toilet-waters and eau-de-Cologne (3)

MISS DIOR, 762,604, by Parfums Christian Dior, Paris, France,

For perfumes, cosmetics, hair lotions and dentifrices (3)

ROMAN HOLIDAY, B783,109, by Bourjois, Ltd., Croydon, Surrey,

For medicated shampoos (3)

GIBBS CLINIC, 785,634, by D. & W. Gibbs, Ltd., London, W.1.

For all goods (3)

LYRIL, 786,761, by Hudson & Knight, Ltd., London, E.C.4. Device 787,999, by Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts. DYLONETTE, 790.217, by Mayborn Products, Ltd., London, S.E.26. SYCAMORE, 790,627, by Chanel, Ltd., Croydon, Surrey.

For soap powders (3)

CONTRAZEAL, 787,172, by James Linday & Sons, Ltd., London, E.C.1.

For hair pomade (3)
"IONEX-B," 788,176, by Rafael de Leon Products, Ltd., London, W.14.

For toilet preparations for the hair (3)

SYNTIL, 789,172, by Welton Laboratories, Ltd., Hunmanby, Yorks.

For preparations and substances for laundry use. but not including bath salts or any goods of the same description (3)

POLYDIN, 790,878, by Polysulphin Co., Ltd., Keynsham, Bristol.

PRINT AND PUBLICITY

PRESS ADVERTISING

MACLEANS, LTD., Great West Road, Brentford, Middlesex: Macleans tooth-paste. In Daily Express, Daily Mirror, Times, Daily Telegraph, People, Glasgow Sunday Post, Belfast Evening.

P.C. PRODUCTS, LTD., Prospect Works, Allerton, Bradford: 1001 cleaner. In Daily Mirror, Woman, Woman's Own, Woman's Realm, Woman's Weekly, Ideal Home, Good House-keeping, Homes & Gardens.

PEPSODENT, LTD., 449 London Road, Isleworth, Middlesex: Twink. In Daily Mirror, Woman, Woman's Own, Woman's Realm, Woman's Day, Woman's Mirror and People's Friend. Harmony. In Woman and Woman's Realm.

PHILIPS ELECTRICAL, LTO., Century House, Shaftesbury Avenue, London, W.C.2: Philishave. Full pages in Daily Express.

POTTER & CLARKE, LTD., River Road, Barking, Essex: Antasma. In True Story, True Romances, Woman's Illustrated, Woman's Woman's Day and Woman's Mirror.

SAVORY & MOORE, LTD., 50 Wigmore Street, London, W.1: Quinasp. In Daily Mirror, Evening News and Evening Standard.

SCHOLL MFG. Co., LTD., 182 St. John Street. London, E.C.2: Nylastic. In leading women's journals and medical journals.

THORNTON & Ross, LTD., Linthwaite Laboratories, Huddersfield: Paton's dental ointment. In Birmingham Mail.

WHITE HUDSON & CO., LTD., Shakespeare Street, Southport, Lancs: Hacks, In Daily Herald, Daily Mail, Daily Mirror and Daily Express during winter months.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, October 26

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, County hotel, Rainsford Road, Chelmsford, at 8 p.m. Mr. A. R. Ritchie on "Some Recent Advances in Pharmacology."

Tuesday, October 27

ABERDARE AND MERTHYR BRANCH, PHARMACEUTI-CAL SOCIETY, Queens hotel, Pontypridd, at 8 p.m. Mr. Shattock (Kodak, Ltd.) on "Selling Colour Photography."

DARTFORO BRANCH, PHARMACEUTICAL SOCIETY, Wellcome club, High Street, Dartford, at 8 p.m. Mr. E. W. Simpson on "Aspects of Hospital Pharmacy."

LEICESTER BRANCH, PHARMACEUTICAL SOCIETY, Bell hotel, Humberstone Gate, at 7.30 p.m. Dr. T. Kerfoot (Immediate past-president, Association of British Pharmaceutical Industry) on "Problems facing the Industry vis-a-vis the National Health Service."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Medway College of Technology, Maidstone Road, Chatham, at 7.30 p.m. Sir Harry W. Melville on "Research and Development in D.S.I.R. Stations."

NORTH STAFFS BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, Hanley, at 7,30 p.m. Mrs. La Ronde (Dorothy Gray, Ltd.) on "Make-up." SOCIETY OF INSTRUMENT TECHNOLOGY, 26 Port-

land Place, London, W.1, at 7 p.m. Talk. TORQUAY BRANCH, PHARMACEUTICAL SOCIETY, Gas

showrooms, Union Street. Film show. University of London, Post-graduate Medical School, Ducane Road, London, W.12, at 4 p.m. Dr. E. H. Belcher on "Radio-isotopes in clinical medicine and research."

Wednesday, October 28

BIRMINGHAM PHARMACEUTICAL ASSOCIATION BRANCH, Botanical gardens, Edgbaston, at 8 p.m. Dance.

FEDERAL TRUST FOR EDUCATION AND RESEARCH. St. Ermin's hotel, London, S.W.1, at 10 a.m. Three-day course "The Common Market and the proposed Free Trade Arca of the Outer Seven."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Parkway hotel. Dinner dance.
STOCKPORT BRANCH, PHARMACEUTICAL SOCIETY,

Town hall, at 7.45 p.m. Dinner dance.

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Seaburn hotel, at 7.45 p.m. Dinner dance. WEST KENT BRANCH, PHARMACEUTICAL SOCIETY.

Yorkshire Grey hotel, Eltham Green, London, S.E.9, at 7.45 p.m. Dinner dance.

Thursday, October 29

BRAOFORD BRANCH, PHARMACEUTICAL SOCIETY, Midland hotel, at 7.30 p.m. Talk.

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Red Lion hotel, Barnet, at 7.30 p.m. Buffet dance. ISLE OF WIGHT BRANCH, PHARMACEUTICAL SO-CIETY, Ryde Castle hotel, Ryde, at 8.15 p.m. Dinner.

HULL CHEMISTS' ASSOCIATION BRANCH, Francis-Reckitt Institute. Danson Lane, at 2.30 p.m. Visit to Reckitt & Sons, Ltd.

LONDON SECTION, ROYAL INSTITUTE OF CHEM-ISTS, Borough Polytechnic, Borough Road, London, S.E.1, at 7 p.m. Film show.

ASSOCIATION PHARMACEUTICAL MANCHESTER Branch, Engineers' club, Albert Square, at 7.45 p.m. Presentation of prizes, Pharmaceutical department, Manchester University, by Dr. F. Hartley (The British Drug Houses, Ltd.).

NORTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Solarium restaurant, Overstone, at 8 p.m, Dinner dance.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Royal Beach hotel, Southsea, at 7.30 p.m. Members' night.

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, at 8 p.m. Film show.

SCARBOROUGH BRANCH, PHARMACEUTICAL SOCIETY, Palm Court hotel, St. Nicholas Cliff, Chairman's evening.

WEST HAM ASSOCIATION AND EAST METROPOLITAN Branch, Red House, Ilford, at 7 p.m. Dinner and dance

WOLVERHAMPTON PHARMACEUTICAL ASSOCIATION. Star and Garter hotel, at 8 p.m. Dinner dance.

Friday, October 30

ROYAL INSTITUTION, 21 Albemarle Street, London, W.1, at 9 p.m. Mr. F. C. Bawden (Rothamsted experimental station) on "Plant Viruses: What they Are and What they Do.'

SOUTHEND-ON-SEA BRANCH, PHARMACEUTICAL SO-CIETY, Imperial hotel, Westcliff Parade, Westcliff-on-Sea, at 7.45 p.m. Talk.

TELEVISION

Programme details are given to enable chemists to put in linking-up displays if they wish. Figures in the columns represent number of appearances of the product during the week.

appearances of the	pro	-uu	:t	auı	ing	τι	ne —	week.
November 1–7	London	Midland	North	Scotland	Wales	South	N.E.	Anglia Ulster
Alka-Seltzer	2	1	1	2	1	1	2	
Amami wave set	2	2	2	2	2	2	2	2 2
Anadin	3	4	4	_		4	4	
Anestan	1	1	2	1	2	_	_	
Angettes Antussin	6		2	3		2	5	2 -
Askit			_	12	_	_	_	_ 7
Aspro		— -		_		_		- 4
Beecham's pills	2	2	3	2	2	2	2	2 2
Beecham's powders . Brylcreem	4	3	4	4	4	3	4	3 3
Brylcreem California syrup of	11	9	11	3	3	11	11	
figs	_	2	2	2	_	_	_	
Cephos	_	—	3	_		_		
Christy's lanoline								
face pack Christy's Quartet	1		_		_	_	_	2 4
Coldrex	3	2	2	1	_	3	4	3 —
Damaskin	1	1 -	_			_	_	
Dekrasil	_		-	-	—	_	4	
Delrosa rose hip	2							
syrup Dextrosol tablets	2	1 3 -	1	1	1	1 3	1	1 —
Euthymol tooth-paste	1	1	1	_	1	1	1	
Fynnon salt	1	1	1	1	î	î	î	
Germolene	3	3	3	3	4	2	3	
Gibbs' S.R. tooth-	2	,	2		÷			
gaste Gillette	3	3 2	3 2	4	4	3 2	3	3 3
Gon	1		_	_	_	_	2	
Hiltone	3		_	-		3	_	
Horlicks	3	3	3	2	3	3	3	2 2
Imperial Leather Kleenex	3	4	4 2	3 2	_	_	3	_ 4
Knights Castile soap	1	2	2	2	2	2 2 2	2 2	2 2
Lantigen	1	1	1	1	2	2	2	1 -
Loxene shampoo	1	2	2	1	2	2	2	5 7
Macleans tooth-paste	4	3	3	4	4	2	4	
Marigold baby pants Max Factor	_			_	2	_	_	— 3
preparations	1	1	1	1	1	2	1	1 1
Mentholatum Deep								
Heat rub	2	-	2	_	_	_	—	- 2
Milk of Magnesia Milk of Magnesia	1		_	2	2	2	2	
tablets	_	1	1		_	_	_	
Milpar	_	1 -	_		—	_		
Nigroids	-	—	1	-	_	_	—	
Pantene			_		5	3	_	4 —
Pepsodent tooth-paste Phensic	3	2	3	3	3	3	3	3 3
Phillips' tooth-paste	1		_	2	_	_		
Phosferine	1	1	1	1	1	1	1	- 1
Polly Roll	_	1	1	1	1	1	1	
Remington shavers	2	3	5	2	2	2	3	
Rennies Rinstead pastilles	1	1 1 -	2	2	2	1	2	1 3
Sanatogen	_	3 -	_		_	_	_	
Savlon	6	6	6	6	6	6	6	6 6
Savril	_		-	-	_	_	4	
Scotties Sctlers	1	1	1 2	4	1 1-	1	1	1 1
		2	2	1		_	_2	3
Shavex	2		ĩ	1	1	4	1	
Shavex Silvikrin pure	3					2	3	
Shavex Silvikrin pure Silvikrin shampoo	9	9	9	3	3	3		
Shavex Silvikrin pure Silvikrin shampoo Tru-gel	3			3	3	4	3	1 3
Shavex Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate	3 9 3	9 4	9		3		3	1 3
Shavex Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate dressing	3 9 3	9 4 1	9 4 1	3				1 3
Shavex Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate	3 9 3	9 4	9		2		3	1 3
Shavex Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate dressing Valderma balm Vaseline petroleum jelly	3 9 3 2 3	9 4 1 3	9 4 1 2 5	3 - 2 5	3 2 5	5	3 2 — 5	
Shavex Silvikrin pure Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate dressing Valderma balm Vaseline petroleum jelly Veno's cough mixture	3 9 3 2 3	9 4 1 3 5 3	9 4 1 2	3 	2	4	3 2 —	1 3
Shavex Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate dressing Valderma balm Vaseline petroleum jelly Veno's cough mixture Virol	3 9 3 2 3	9 4 1 3	9 4 1 2 5	3 - 2 5	3 2 5	5	3 2 — 5	
Shavex Silvikrin pure Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate dressing Valderma balm Vaseline petroleum jelly Virol Virol Vitacup	3 9 3 2 3 5 3	9 4 1 3 5 3 4 -	9 4 1 2 5 3	3 -2 5 3 -	5 3	5 2	3 2 - 5 3 -	
Shavex Silvikrin pure Silvikrin shampoo Tru-gel Ultraplast alginate dressing Valderma balm Vaseline petroleum jelly Veno's cough mixture Virol	3 9 3 2 3	9 4 1 3 5 3	9 4 1 2 5	3 - 2 5	3 2 5	5	3 2 — 5	

WILLS

Mr. W. I. Brace, M.P.S., Portreath, Ivy Road, Merley, Wimborne, Dorset, left £8,193 (£1,677 net).

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 50 per cent.

D. & W. GIBBS, LTD. Gibbs' S.R. tooth-paste* standard size	Doz. 13 11 ¹ / ₄	I.R.P. 1 10 A							
P.A.T.A. LIST (Alterations notified this week by the Proprietary Articles Trade Association.) MUSTEROLE FINE PRODUCTS, LTD. (distri-									
butors, THOS. CHRISTY & Musterole* SANGERS, LTD.									
Resinol ointment* 1½ oz.	34 0 A 57 0 12 0	4 6 R 7 6 R 1 7 R							
ADDITION TO THE LIST J. G. INGRAM & SON, LTD. Omega breast reliever 59 6 7 9									

NEW PRODUCTS AND PACKS

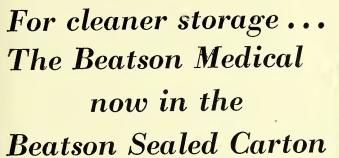
F. FARTHING & CO., LTD.		
Apiella royal jelly skin Doz. vitaliser† "budget" size 51 0		6
	8	
GUIGOZ, LTD. (distributors, TOM E. LTD.)	HOE	35(
Pennae milk powder		
skimmed 180 gm.	9	6
full cream 180 gm.	9	6
TOM E. HOBSON, LTD.		
Biotta 25 oz.	12	9
KALIUM PRODUCTS (REDDITCH)	. LT	D.
Pro-tekt-her aerosol 47 4		11
MILTON PHARMACEUTICALS, I	TD	
S. MAW SON & SONS, LTD.	,	
Milton-Maw sterilisation unit	9	0
ANDRE PHILIPPE, LTD.		
No. 2 bubble bath dimple		
bottle* 2 oz. 12 0	1	9
PHARMACEUTICAL SPECIALITIES	(Mz	4¥
BAKER), LTD.		
Valledrine cough linctus		
4 fl. oz.	40	6
40 fl. oz.		
CHAS. H. PHILLIPS CHEMICAL C Coldrex tablets 12		UT.
	3	U
REMINGTON RAND, LTD. Remington Auto-Hone shaver*	239	6
WESTMINSTER LABORATORIES,	LTD.	
Each		
Pripsen 160 gr. 1 6 1 lb. 32 3		

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for September was 208.4

The drug index for September was 208.4							
C	Cost	Item	16 oz.	4 oz.	1 oz.	1 dr.	
d.	per	Teem	s. d.	s. d.	s. d.	s. d.	
30	500 gm.	Acid. boric. cryst	3 5	0 111	0 3½	_	
30	500 gm.	Acid. boric. pulv. subtil	3 5	$0.11\frac{1}{2}$	$0 3\frac{1}{2}$	_	
78	500 gm.	Aloe Capensis pulv	-	2 6	0 9	$0 1\frac{1}{2}$	
192	500 gm.	Ammon. benzoas, B.P.C. '49		_	1 10	0 3	
67	10 gm.	Amphetamina S.1. (4)	per gr.	0 1	_	3 4	
26	500 gm.	Borax S1 (5)	2 11	0 10	0 3	_	
59	25 gm.	Ext. fluc. voili. siec.		_		1 3	
129	25 gm.	Ephedrin. sulphas P.I. (8)	per gr.	0 1	-	2 7	
56	25 gm.	Hydrarg. iodid. rub., B.P. '53					
		P.II. (4)	_	_	7 11	1 2	
62	25 gm.	Hydrarg. oxid. flav. P.I. (8)	_	_	8 9	1 3	
62	25 gm.	Hydrarg. oxid. rub. P.I. (8)	_	_	8 9	1 3	
56	25 gm.	Hydrarg. perchlor. pulv.,		` `			
100	100	B.P. '53 S.1. P.II. (4)	_	_	7 11	1 2	
123	100 gm.	Hydrargyrum wgt.	_	_	5 3	0 9	
75	100 gm.	Hydrarg. c. creta	-	_	3 2	0 5 0 5	
252	500 mils	Inf. senegæ conc., B.P.C			2 6	0 5	
63	500 gm.	Nux vomica præp. S.1. (5)		2 0	0 7½	_	
228	1 gall.	Ol. arachis	2 10	$0 9\frac{1}{2}$	0 3	0 21	
48	100 mils	Ol. citronellæ (Ceylon)	_		2 1 6 5	$0 3\frac{1}{2}$	
52 77	25 gm.	Ol. pini sylvestris Phenazonum, B.P.C	-	_	3 4	0 11 0 6	
41	100 gm. 100 gm.	Phenazonum, B.P.C	_	-	1 9	0 3	
35	~	Piper. alb. pulv Piper. nigr. pulv		_	1 6	$0 2\frac{1}{2}$	
84	100 gm. 500 gm.	D 140		2 8	0 10	$0 2\frac{1}{2}$	
93	500 gm.	* ' ' '		3 0	0 11	$0 1\frac{1}{2}$	
108	500 gm.	Potassii phosph. acid Pulv. stramon. co., B.P.C. '49		3 6	1 1	0 2	
99	500 gm.	Pulv. tragacanth. co		3 2	$0.11\frac{1}{2}$	0 11	
29	500 gill.	Spt. chirurgicalis, B.P.C., No. 1	3 3	0 11	$0 3\frac{1}{2}$		
243	25 gm.	Strychnin puly S.1. (4)	per gr.	0 1		4 11	
243	25 gm.	Strychnin, hydrochlor, S.1, (4)	per gr.	0 1	_	4 11	
224	25 gm.	Strychnin. pulv S.1. (4) Strychnin. hydrochlor. S.1. (4) Strychnin. sulphas S.1. (4)	per gr.	0 1		4 7	
66	25 gm.	Sulphadiazin S.1. B only	— per gr.		_	1 4	
388	2 litres	Syr. codein. phosph., B.P.C.					
200	- 111100	P.I. (9)		3 1	$0.11\frac{1}{2}$	$0 1\frac{1}{2}$	
78	500 mils	Syr. ribis nig., B.P.C	_	2 6	0 9	$0 \ 1\frac{1}{2}$	
51	500 mils	Syr. sennæ, B.P. '53		1 8	0 6	0 1	
90	500 mils	Tinct. arnicæ flor., B.P.C. '49	_	2 11	$0.10\frac{1}{2}$	$0 1\frac{1}{2}$	
198	500 mils	Tinct. senegæ, B.P.C		6 4	1 11	$0 3\frac{1}{2}$	
162	250 gm.	Ung. gallæ c. opio S.1. (5)	_	-	3 2	0 5	
129	250 gm.	Ung. methyl. salicyl. co	_	8 4	2 6	0 4	
48	500 mils	Vap. menthol. et eucalypt.,					
	1	B.P.C.	`	1 7	$0 5\frac{1}{2}$	0 1	

The bold letters and figures at left of dispensing price relate to the classification of poisons in The Chemist and Druggist Poisons Guide.





"The Sign of a Good Bottle"

ANOTHER BEATSON SERVICE!

To ensure maximum protection against dirt and dust, all Beatson Medicals are packed in the Beatson Sealed Carton thus maintaining the bottles in "production clean" condition until use.

Be sure to specify BEATSON

BEATSON, CLARK & CO. LTD.

GLASS BOTTLE MANUFACTURERS

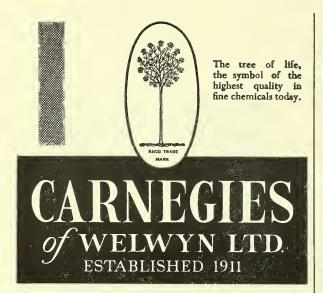
BC 92 (R)

ROTHERHAM

BEATSON MEDICAL

(Established 1751)

YORKSHIRE



Manufacturers and Suppliers of

ADRENALINE **ADRENOCHROME** MONOSEMICARBAZONE ALPHANAPHTHYL ACETIC ACID AMINOPHYLLINE BISMUTH SALTS BRUCINE AND SALTS CAFFEINE AND SALTS CHRYSAROBIN EPHEDRINE AND SALTS HYDANTOIN DERIVATIVES IODIDES ISOPRENALINE SALTS METHOIN NORADRENALINE AND SALTS P.A.S. SODIUM PIPERAZINE AND SALTS RESERPINE SANTONIN STRYCHNINE AND SALTS THEOBROMINE AND SALTS **THIOMERSALATE OUININE AND SALTS** CINCHONA FEBRIFUGE **TOTAQUINA**

CARNEGIES OF WELWYN LTD. Welwyn Garden City, Hertfordshire, England

Phone: WELWYN GARDEN 5001 (10 lines)
Cables: CARNEGIES, WELWYNGARDENCITY

Telex: LONDON 28676



SOUPLEX LTD., MORECAMBE, LANCS.

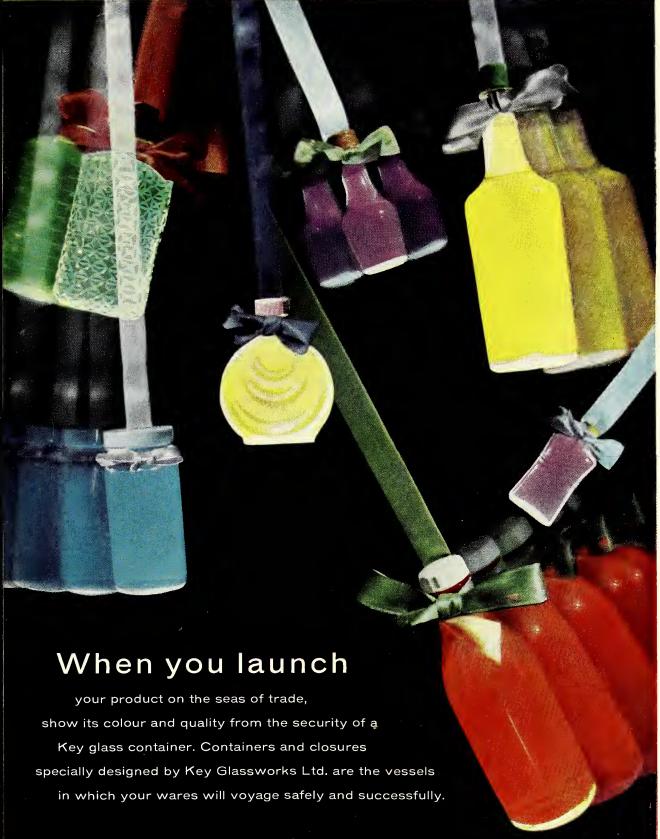
A PRECISION-MADE (SIII) FX) PRODUCT



Single Tipped, splinterproof, hygienic. Uniquely packed. Every stick visible and handy.

MANUFACTURED BY

PAPERSTICKS LIMITED
41-43 North Rd., Southend-on-Sea, Essex



Key Glassworks Ltd Factories at New Cross · Alperton · Harlow

First Class in GILASS

Please address all correspondence to Ronald Gale and Co. Ltd · 7 Fursecroft · George Street · London W1

SPECIAL AUTUMN BONUS

on these 3 easy-selling ANGIERS products



Angiers Emulsion

Medium Size ... 30/- per doz. Retail Price 3/10d. each (inc. P.T.) Family Size ... 50/4d. per doz. Retail Price 6/6d. each (inc. P.T.)

Angiers Junior Aspirin

Bottles of 50 tabs 11/- per doz. Retail Price 1/7d. each (inc. P.T.)

Angiers Supavite

Boxes of 30 capsules ... 43/6d. doz. Retail Price 5/- each (No P.T.)

Boxes of 60 capsules ... 78/4d. doz. Retail Price 9/- each (No P.T.)

Family Pack of 120 capsules 141/4d. doz. Retail Price 16/3d. each (No P.T.)

Sole Distributors:

ONE FREE ITEM

on all orders for Angiers products exceeding £7.10.0 list price

(N.B. PURCHASE TAX IS CHARGED ON BONUS GOODS)

in every dozen

AND 5% DISCOUNT for 14-day prominent window display

Big new advertising to speed sales

Angiers Supavite

SUNDAY EXPRESS SUNDAY DISPATCH SUNDAY GRAPHIC **OBSERVER**

and in influential magazines:

RADIO TIMES READER'S DIGEST WOMAN'S OWN

Emphasising NEW Anti-Tiredness Formula.

Angiers Junior Aspirin

New series of frequent and dynamic short TV spots for Angiers Junior Aspirin on main network stations in addition to continuing series of regular 30-second commercials.

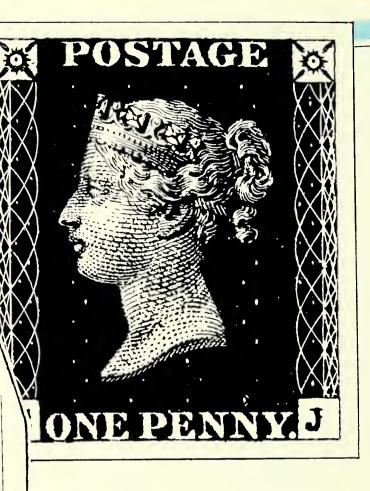
Regular Junior Aspirin press advertisements, too, in big-circulation women's magazines, in specialised family-doctor and parent magazines, and in professional medical. nursing and dental journals.





Offer closes October 31st

Order your stocks NOW



. . . Sir Rowland Hill's introduction of the penny post was the foundation of our modern postal system.

Six years earlier, John May had founded the company which, under the house trade mark M&B, today offers a wide range of reliable pharmaceutical chemicals.

MANUFACTURED BY MAY & BAKER LT

M&B

AMINOPHYLLINE B.P.

M&B

THEOPHYLLINE B.P. ANHYDROUS

M&B brand

THEOPHYLLINE B.P. MONOHYDRATE

*

M&B

for fine pharmaceuticals



NHAM · TEL: DOMINION 3060 · EXT 317 & 318

80% PROFIT ON OUTLAY

THROAT LOZENGES

Cost to chemists 16s 8d per dox, tax free

30s 0d per doz. Retailing at

NET PROFIT 13s 4d per doz.

Every unit of a dozen tubes is packed in an attractive display outer, complete with price tickets and crowners. An attractive show card is available for your window and counter.

CIBA

LABORATORIES

LIMITED, HORSHAM,

SUSSEX



DB LOZENGES...

DB Lozenges are an effective, potent and safe preparation recommended for sore throats, pharyngitis and all similar throat or mouth infections.

They are fruit flavoured and are suitable for both adults and children, combining attreme palatability with the powerful antiseptic action of domiphen bromide BPC. So whenever a soothing antiseptic lozenge is requested supply DB Lozenges. The results will be most satisfactory to both your customer and yourself and repeat sales will follow.

RETAIL PRICE

2/6

CIBA

• RECOMMEND THE BELLAPURIN



FOR RAPID RELIEF

OF

ABDOMINAL PAINS UTERINE INERTIA HÆMORRHOIDS

Supplied in boxes of 12 and 50 Suppositories.

P.A.T.A.

TECHNICAL LITERATURE AND SAMPLES FREE ON REQUEST

RIDDELL PRODUCTS LIMITED

RIDDELL HOUSE, DUNBRIDGE STREET, LONDON, E.2

Telephone: SHOreditch 7254/6

Telegrams: PNEUMOSTAT, BETH, LONDON

and at 11 MANSFIELD CHAMBERS, ST. ANN'S SQUARE, MANCHESTER, 2



DEVON.

CREDITON,

THOVALINE

the answer to:-

- * bedsores
- * burns
- * urine dermatitis

EEDSORES can be prevented by applying THOVALINE before the trouble starts but if already in existence will help greatly in healing.

URINE DERMATITIS Excellent healing properties where rash exists and will prevent such trouble occurring if applied beforehand. Offensive odour is eliminated.

BURNS Unique action. THOVALINE is self sterile it eliminates pain and is a rapid healer.

Particulars from your usual wholesale house:

ILON LABORATORIES

LORNE STREET · HAMILTON · LANARKSHIRE

Tel: HAMILTON 410

It's good business to buy Osramthey're guaranteed

With Osram you can be certain of getting what you've paid for. Because . . .

- Osram Tubes are guaranteed. They will be replaced free of charge should they fail before 3,000 hours' life or one year's service.
- 2. Osram Tubes maintain top performance right through life.
- Osram Tubes are Universal Start, and that means reliable operation in either switch or switchless start fittings.

So always buy

Osram

guaranteed tubes and add life to your lighting!

A G.C. Product. The General Electric Co. Ltd.



QUEENSBRIDGE ROAD, LONDON, E.8 Telephone CLissoid 7132

As from OCTOBER the following revised prices will come into effect:

RETAIL SELLING

PRICE 3/6

PER BOTTLE

PRICE TO RETAILER 33/9

PER DOZEN

NO BOTTLE DEPOSIT

Ask your Wholesaler for full details. Attractive new showcard available FREE on request.

API14

ANTISEPTIC CREAM

is now on SCOTTISH and in the Scottish T.V. GUIDE

Obtainable from the following Wholesalers

T. & H. Smith Ltd. Glasgow W. & R. Hatrick Ltd. Glasgow J. Taylor Ltd. Glasgow Cockburn & Co. Ltd., Glasgow Brown, Gray & Co. Ltd., Glasgow New Apothecaries Co. Ltd., Glasgow

T. & H. Smith Ltd., Edinburgh Pinkerton, Gibson & Co. Ltd., Edinburgh Raimes Clark & Co. Ltd., Edinburgh Harleness Beaumont & Co. Ltd.,

Edinburgh
John Miller, Dundee
James Taylor (Irongate) Ltd., Dundee

Manufactured by



AYRTON, SAUNDERS & CO. LTD. HANOVER ST. LIVERPOOL

Soreness here . . . ?

remedy

here...



PRE-WINTER BONUS OFFER

October 1st to November 30th.

12 tubes for the price of 10.

Minimum order—12 tubes.

This special display outer containing one dozen tubes of 'Zynocin' is offered to you at Bonus Terms stated above giving a profit of 20s. 0d. for an initial outlay of 25s. 0d.

A compelling new counter showcard is available on request.

PROFIT—1s. 8d. per tube

Zynocin'

the antibiotic lozenge with the NICEST flavour

- * The only lozenge containing xanthocillin the new wide-spectrum antibiotic intended solely for topical use.
- * Delightfully fruit flavoured—totally free from traditional 'medicinal' taste.
- * Contains benzocaine too—for prompt and prolonged relief of pain and discomfort.

TRADE PRICE: 2s. 6d. per tube of 12 lozenges. RETAIL PRICE: 3s. 9d.

ORDER NOW FROM YOUR USUAL WHOLESALER

DC(B)L

THE DISTILLERS COMPANY (Biochemicals) LIMITED Broadway House, The Broadway, Wimbledon, London, S.W.19

Telephone: LIBerty 6600

Owners of the trade mark 'Zynocin'

four very good reasons...



- DEVELOPED BY DOCTORS for correct feeding action and jaw development.
- APPROVED BY MOTHERS Britain's top selling Teat, now and for many years because of its essential softness and freedom from trouble.
- BACKED BY CONSTANT ADVERTISING Three times more advertising this year than ever.
- SOLD THROUGH CHEMISTS ONLY Because this is Maw's unchanging policy.

for selling



teats!

BOTANICALS CHEMICALS GUMS



ESSENTIAL OILS SPICES WAXES

CASCARA
IPECAC
SENEGA
STYRAX
STROPHANTHUS

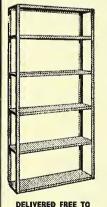
HAMBURG

JOHN KELLYS (LONDON) LTD.

24 OLD BROAD STREET, E.C.2.

Telephone: LONdon Wall 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"

STEEL SHELVING



Shelves adjustable every inch.

Heavy gauge shelves will carry 400 lb.

HIGH

Stove enamelled dark green.

WIDE

works.

Brand new - manufactured in our own

DEEP

6 shelves per bay— Extra shelves 8/each.

Quantity discounts.

£3·15

ENGLAND, SCOTLAND

AND WALES

Also available in White at £5 per bay

N·C·BROWN LTD

SHELVING DIVISION, HEYWOOD, LANCS. PHONE:- 69018 (6 lines)



is ringing up more profits each week than any other Hair Colouring

COLOR-GLO has created a new fast-growing market for semi-permanent hair colouring. COLOR-GLO is safe, simple and effective to use. Natural-looking with no risk of extreme results. That's why it sells better than any other hair colouring. When women see you've got COLOR-GLO they'll buy. And be back-regularly-for more. So don't just stock COLOR-GLO, display eye-catching COLOR-GLO packs and showcards-and link up with the biggest ever COLOR-GLO advertising campaign

And now. an even wider market with BLACK TULIP (DeepBurgundy)

Anew shade fordark hair giving a beautiful, deep, mahogany tone

Biggest ever Color-Glo advertising is this year reaching over 17,000,000 women

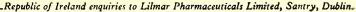
Color-Glo

The effect lasts through 6 to 8 shampoos

SEMI-PERMANENT HAIR COLOURING

A creation of L'OREAL · PARIS

GOLDEN LIMITED · 7 GROSVENOR STREET · LONDON W. 1 · HYDe Park 1671/6



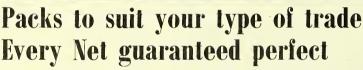
There's profit for you in these hair nets

Women's Magazines carry these advertisements every month

MILLION WOMEN OVER 9 READ THEM!







Made by BYARD MANUFACTURING CO. LTD., NOTTINGHAM



Malt and Cod Liver Oil

With the flavour that CANNOT be copied

We are the premier firm supplying Chemists "own name" packs

IMPORTANT

Make sure of your stocks against the possibility of severe Winter epidemics.

MILLER & COMPANY LIMITED, LEYLAND MILLS WIGAN

W. K. BURNSIDE Pty., LTD., Melbourne, AUSTRALIA

EUCALYPTUS EUCALYPTOL B.P. 70/75% and 80/85%

RECTIFIED B.P.

The secret of permanently lovely hair

for 'TANGO' 118.5

PRODUCED NATURALLY WITHOUT FRACTIONATION CONSEQUENTLY

KEEP FRESH LONGER

Agents for U.K.: WILSON & MANSFIELD, LTD., 15 Philpot Lane, LONDON, E.C.3

Phone: MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams: WYFIELD, LONDON



FREE ELECTRIC BLANKETS TO BE WON IN THE



ELECTRIC BLANKET

SWEET DREAMS

COMPETITION

-and your customers win your share for you

All they do is put Dreamland's special features in the order they think best—there's an entry form packed with every Dreamland Blanket you sell!

Every week for 22 weeks 100's of fff's worth of standard single size Dreamland blankets will be given as prizes—from September 28th on!

Every pair of Dreamland blankets one of your customers wins will bring you a pair of blankets — that's over £2,500 worth of free stock for retailers!

Yes, 22 whole weeks of Big Prizes—for you and your customers—in the Dreamland "Sweet Dreams" Competition—all backed up by Deamland's biggest-ever National Advertising Campaign.

TV ADVERTISING on all networks

-60-second participations
In the popular Advertising Magazines, reaching over 7,500,000 homes

PRESS ADVERTISING

big spaces in the magazines
 that command the women's market,
 reaching almost 5,000,000 women

-AND HERE'S STILL MORE GOOD NEWS!



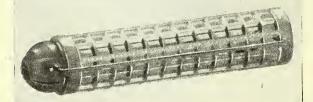
ON ALL DREAMLAND ORDERS. Yes on all orders: so send yours to your usual Wholesaler as early as possible. And with your first stock of Dreamland — the super-size blankets that warm the whole bed — will come a special Showcard to link your shop with the easy-to-enter "Sweet Dreams" Competition.

EASIPOWER APPLIANCES LIMITED · 30 HIGH STREET · SOUTHAMPTON · HANTS · TEL: 27947/8



NOVELTY HAIR ROLLER 'FABULO' BRAND

also in Xmas pack available from Oct. 15



The world's best and cheapest UNBREAKABLE (polythene) HAIR ROLLER or CURLER in 2 sizes for professional use by Hairdressers, for use with Home Perms or simply by damping the hair.

Size 0 = 12	in Cell	ophane p	kt. (very attr	active)	21/1	ong
Size $l=7$	**		**		**	3″	**
Size2=5		**	**	**	**	31/	**
Size 3=3		**	**	**	**	3"	**

Price 15/10 per doz packets of either + 25% P.T. Mln. Retail Price 2/5 per packet of either size

(very thick)

Supplies obtainable through the wholesale trade or direct from:

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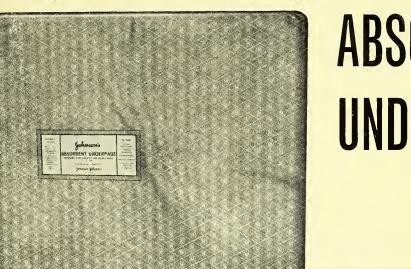
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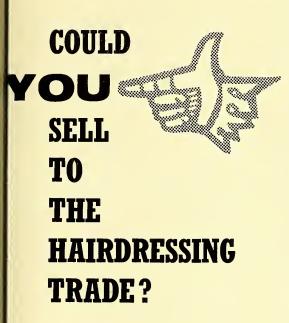
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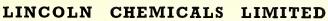
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